No-Hassle, Reliable Mercury Measurements

From expert evaluation and advice to best-in-class coal pile-to-stack solutions, ADA provides products and services designed to achieve worry free compliance and advance cleaner energy. It's at the heart of everything we do.
DO YOU LOVE YOUR MERCURY CEMS?

Are you logging significant operator time conducting non-routine maintenance? Have you abandoned your CAMR CEMS?

Have you given up hope of finding a system that works reliably, or that shows real-time mercury measurements for activated carbon injection feedback control? Isn’t it time for a CEMS strategy that’s manageable — one that meets your compliance goals?

ADA has been working with mercury CEMS at coal-fired plants since 2005, when the systems were still in the development stage. By 2008, we owned 8 Hg-CEMS and deployed them at plants across North America to support our mercury control demonstration programs. We developed a reliability program to expedite installation and successful operation of the systems during these programs. We are now offering this CEMS Reliability Program to care for your CEMS and keep it operating at peak performance.

The program begins with making sure your CEMS are configured with the latest software. Servicing for successful operation takes the keen understanding that we’ve learned over the years, such as making sure there aren’t any cold spots for mercury to “hide out” and cause trouble.

We train your CEMS technicians how to efficiently maintain your systems. Our experts remotely monitor your CEMS operation, and we’ll coach your CEMS techs on the precise techniques needed to keep your CEMS — and your plant management — happy. We even provide a dashboard report showing performance for quick review by your technicians and plant management.

ADA’S MERCURY CEMS RELIABILITY PROGRAM

Achieving reliable CEMS performance is not only possible, it’s vital to a good compliance strategy. Our CEMS program will provide:

- Assess current operations
  - Calibration records
  - Maintenance records
  - Visual inspection
- Upgrades as required
- Technician training
- Ongoing support
  - Remote monitoring support
  - CEMS tech coaching
  - Service support

KEY BENEFITS

- Lower cost of compliance by optimizing sorbent usage
- Reduced risk of penalties from non-compliance or faulty system operation
- Improved operator knowledge from focused training and ongoing support
- Detailed reports to assist in better operational decisions
- Troubleshooting assistance from our special Hg-CEMS technical support group during regular business hours
UNPARALLELED SERVICE

Basic System Evaluation:
ADA provides a skilled technician to evaluate the existing Hg-CEMS system and provide a detailed report of suggested upgrades, repairs, maintenance and operational changes. ADA maintains a basic inventory of parts, and performs repairs to minimize down time.

Technician Training:
ADA provides an experienced instructor to train Hg-CEMS operators and technicians in the basic functions of the Thermo Fisher Scientific system.

- Level 1 Training - Operators are trained in the operation and basic troubleshooting of various Hg-CEMS components
- Level 2 Training - Operators are trained in the detailed interpretation of Hg-CEMS data to enable advanced troubleshooting

Remote Monitoring and Service:
The remote monitoring and service contract can be tailored to your needs, and can include:
- Remote Monitoring - ADA uses a proprietary program to monitor performance and evaluate operational data from the Hg-CEMS: daily analysis of the data with errors and issues reported as detected, and a weekly report to analyze and trend performance data. ADA can also install equipment to directly communicate with the CEMS to permit remote monitoring, calibrations, and basic troubleshooting.
- Service Package - ADA engineers provide, as needed, repairs and quarterly maintenance, and can assist with annual RATA tests. We can also re-install systems that have been decommissioned.

Integration and Optimization of Hg-CEMS and ACI Systems:
ADA provides skilled technicians to evaluate existing ACI and Hg-CEMS systems and a detailed report of suggested upgrades, repairs, maintenance and operational changes. ADA integrates the Hg-CEMS and ACI systems using a proprietary program that optimizes sorbent feed rate to reduce PAC usage while maintaining compliance.

ProRak™ Process Analyzer with Reliability Support:
We have integrated an Hg-CEMS into a portable enclosure for use as a process analyzer.
- Compact design with ease of mobility
- Self-contained environmental controls eliminates the need for CEMS shelter
- Real-time data, perfect for feedback controls with an ACI system
- Ease of operations and maintenance when used with ADA’s training and remote monitoring services

ADVANCING CLEANER ENERGY THROUGH STATE-OF-THE-ART SOLUTIONS

ADA-ES, Inc., an Advanced Emissions Solutions, Inc. company, was founded in 1996 to provide emissions control solutions for the coal-fired utilities industry. Since then, ADA has established one of the most highly recognized teams of industry experts, and is the most recommended and trusted name in the emissions control industry, especially in mercury.
For nearly two decades, ADA has conducted more than 100 mercury control demonstrations at coal-fired power plants, and sold 140 activated carbon injection systems for mercury control. Our portfolio of products has grown to address limitations in coal composition, balance-of-plant impacts from alternate approaches, and operational challenges introduced by other technologies. We were the first to understand these environmental issues, provide a range of commercial solutions to the industry, and today have the most mercury control systems in operation in the US.

ADA delivers an important combination of hands-on experience, industry expertise, demonstrated commercial products, and commitment to collaborating with customers. Our track record includes securing more than 30 US patents with additional US and international patents pending and receiving numerous prestigious industry awards for emissions control technology and systems. So no matter the challenges our customers face, ADA will continue to focus its significant expertise and resources to innovating for a cleaner energy future.

Learn more about ADA, our products and services at www.adaes.com. Make us your partner in advancing cleaner energy.
ADA — YOUR TRUSTED PARTNER

Our team has supported plants in evaluating mercury measurement and control options for more than 25 years. Before commercial mercury CEMS were developed, we built and operated our own mercury measurement systems.

We collaborated with Thermo Fisher Scientific and shared what we learned about the behavior of mercury and were the first to use their systems at coal-fired power plants.

We have conducted mercury control demonstrations at more than 100 plants and have installed, commissioned, and operated Hg-CEMS at most of these sites.

Our internationally-recognized mercury measurement and control experts continue to help plants ensure they are using the best tools and approaches to meet their compliance challenges. Put our expertise to work for you to save money and reduce risks of non-compliance.

Contact us today at 720.598.3515 to learn more about our CEMS Reliability Program and we will help you achieve hassle-free mercury measurements.

WHY ADA?

No one has a better understanding of coal pile-to-stack power plant operations than ADA. As the recognized thought leaders in the industry with significant process experience, ADA is the expert in providing unit-specific recommendations that support environmental compliance and reduce costs. ADA offers forward-thinking solutions driven by the needs of the coal-fired utility industry.

Our products and services include:

- M-Prove™ Oxidation Technology
- RESPond® Flue Gas Conditioning
- ADAir-Mixer™ Technology
- ACI
- DSI
- Parts & Service
- Retrofits
- ProRak™ Mercury Analyzer
- Health Check
- CEMS Reliability Program
- Predictive Emissions Monitoring