Have You Optimized Your Mercury Compliance Strategy?

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 and advance cleaner energy. It’s at the heart of everything we do.
CAN YOUR COMPLIANCE STRATEGIES KEEP UP WITH COMPLEX PLANT OPERATIONS?
Meeting state and federal compliance levels for mercury can be challenging. For example, results from tests conducted in the spring may not represent performance during hot summer months. Fuel quality can affect mercury emissions. ADA’s Health Check can provide guidance on how best to meet MATS compliance across a range of operating conditions.

ADA’s Health Check provides a compliance strategy review combined with expert analysis to ensure consistent and optimal compliance with state and federal mercury rules. This is a value-added approach from our experts, who have unmatched mercury control experience.

Your ADA Health Check will help you answer critical questions:

- Are my systems ready for MATS?
- Can I reduce my compliance costs?
- Does my plant have any unique operating concerns that impact compliance:
  - Coal variability? Plant cycling?
  - Seasonal operational changes?
- Will my scrubber reliably control mercury?
- Are my ESP and Fabric Filter up to the task?
- Could MATS compliance restrict my fuel and year-round operational flexibility? What can I do about it?
- Is my monitoring strategy saving me time and money?
- Am I using the right/best sorbent?
- Will halogen improve performance?
- Am I spending my compliance dollars wisely?
- Will my strategy impact other current or pending environmental rules?

Call us today 720.598.3515 and learn more about Health Check!

VALUE-ADDED APPROACH
- Health Check provides a check-up on compliance technologies, including:
  - Unit-specific operation
  - Fuel variability and combustion
  - APC equipment and performance
  - ACI/DSI system operation
  - Sorbent usage rate
  - CEMS operation/function
  - Mercury emissions
- Assess impact of changes in operations, including seasonal changes, cycling load, and fuel variability on future emissions
- Rate your Hg control performance using ADA’s proprietary models
- Provide recommendations for on-going compliance to improve reliability and reduce operating costs

SORBENT PERFORMANCE
- Chemical Interference?
- Optimal Sorbent?
- Optimized Sorbent Injection Rates?
- Sorbent Distribution?

BALANCE OF PLANT ISSUES
- Potential Corrosion
- Fly ash Salability
- APC Operations
- Liquids discharge
Mercury in coal-fired plants exhibits complex chemistry. There are multiple factors that affect mercury emissions control. For example, the amount and form of mercury present downstream of the air preheater at a power plant is affected by: coal (rank, mercury, sulfur, halogen, iron, copper, calcium, magnesium); boiler type; coal classifier operation; combustion performance; SCR (catalyst type, condition, age, gas flow, ammonia flow, temperature); air preheater (type, quench rate, efficiency). Understanding how your system is operating compared to others in the industry is very challenging.

ADA's in-house team of experts use an interactive engineering process to review plant operations from coal-pile to stack to assess the “health” of your control system. We will evaluate options to improve performance, reduce costs and provide you a detailed analysis for planning purposes.

EXPERIENCE YOU CAN TRUST

We begin with brief interviews of the operators along with a detailed review of historical data. This not only helps us identify key trends in your control effectiveness, it also uncovers potential threats to your compliance strategy.

Next, we travel to the plant to meet with operators and inspect the equipment (baghouse, ESP, ACI and DSI, coal additives, mercury CEMS, etc.) to determine if any equipment repairs or upgrades are needed. Once we finish collecting data, we use our proprietary models to predict performance at a plant with similar operating characteristics. This allows us to provide a rating of plant MATS Compliance performance.

HEALTH CHECK REPORT CARDS INCLUDE
- Your facility's current standing—including mercury and/or acid gas control equipment
- Our recommendations for any improvements to your system’s performance or general strategy

ADA's Health Check can help you achieve increased mercury control system reliability and reduced operating costs.

HEALTH CHECK LITE

We also offer a lite version of the Health Check designed to focus on your specific areas of concern. For example, we can limit the Health Check to just your ACI equipment or CEMS.

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 understands the many factors that affect mercury removal and we can help you determine the optimal control strategy for your plant and operations through our Health Check. We assess and recommend ways to improve performance, reliability and safety. Some of the key factors considered include:

- Properties of the coal — including halogen content, sulfur and mercury
- Boiler operation, load profile, flue gas temperatures, etc.
- Performance of emissions control equipment and operating practices
- Relative costs and potential performance limitations of various control strategies

Our team has supported plants in evaluating mercury control options for more than 25 years, including conducting mercury control demonstrations at more than 100 plants.

WHY ADA?

No one has a better understanding of coal pile-to-stack power plant operations than ADA. As the recognized thought leader 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

Contact us today to learn more about Health Check as well as our other products and services.