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.
HOW CONFIDENT ARE YOU THAT YOU HAVE THE RIGHT CHEMICALS?

Meeting state and federal compliance levels for mercury is challenging, especially when you’re managing more than just mercury. Are you adding chemicals to the coal or gas stream? Have you considered the impacts of chemical(s) on:

- Boiler operation or tube life
- SCR Catalyst life
- Corrosion
- Ancillary stack emissions
- Leaching from ash
- Wastewater treatment impacts
- All-in costs (including balance-of-plant impacts)
- Leaching from ash
- Ancillary stack emissions

We developed a coal additive that enhances mercury removal in plants firing low-halogen fuel. It introduces just enough chemical to treat the mercury without impacting your plant. We’ve treated over 150M tons of coal without any reported issues.

ADA’S M-PROVE TECHNOLOGY

Our M-Prove Technology provides a cost-effective alternative to other halogen-based, coal additives used to for enhanced mercury removal. Our product minimizes corrosion risks to cut maintenance and repair costs, enhancing system reliability. M-Prove also reduces additional halogen that could leach from your ash, or be present in the wastewater treatment system.

KEY BENEFITS

- Effective at extremely low chemical treatment rates
- Significantly reduces the balance-of-plant risks attributed to other halogen-based coal treatments, including corrosion
- Minimizes ancillary halogen emissions in the stack, fly ash and wastewater
- Reduces sorbent consumption for ACI systems
- Facilitates enhanced mercury removal by other downstream pollution control devices (ESP, FF, WFGD)
- Minimal capital investment

Call today and learn more about ADA’s M-Prove Technology!

MITIGATE BALANCE OF PLANT ISSUES

Potential Corrosion
Fly-ash Salability
APC Operations
Liquids discharge
Ancillary Emissions

ADA provides solutions for challenging industry problems. In the late 90’s, we discovered that halogen was required to achieve high mercury removal in plants firing sub-bituminous coals. We also know that adding too much halogen to a plant designed to burn low halogen coals can cause costly, unintended impacts to metal that comes in contact with flue gas.

Our patented M-Prove Technology was developed to provide the benefits of halogen for mercury control, without the negative impacts. We use a form of halogen that can be applied at very low levels. This essentially eliminates the risk associated with halogen injection while achieving similar mercury control benefits.

PROVEN RESULTS

Our observations from current users of ADA’s M-Prove Technology show:

- Up to 85% reduction in mercury emissions achieved without activated carbon.
- Reduced ACI sorbent rates by more than 60%.
- Application rates typically 1/10 of other halogen-based coal treatments.
- Over 150M tons of coal treated with no corrosion or balance-of-plant issues.
- Minimal application rates, which results in less ancillary emissions from facility effluent streams.

EASE OF IMPLEMENTATION

M-Prove Technology is a liquid coal additive that can be applied at various stages of the coal feed process. We understand that adding a chemical to your process requires thoughtful consideration to minimize risks to the plant.

We assist you in evaluating our M-Prove Technology through:

- Discussions with our technical experts
- Full-scale testing using a portable system. Minimal disruption to normal operations.

We offer simple, low capital options to implement the M-Prove Technology. The injection equipment includes a simple, skid-based design with a small footprint.

- Injection equipment available for purchase or lease.
- Existing coal additive systems can easily be modified for the M-Prove additive.

AN EXPERIENCED APPROACH

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 innovate 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

ADA assists plants by helping them determine the best solution for their unit-specific operations. We evaluate many factors affecting mercury removal to help you determine the optimal control strategy for your plant. Key factors include:

- Coal properties, including halogen, sulfur and mercury content
- Boiler operation, load profile, flue gas temperatures, etc.
- Emissions control equipment and operating practices
- Relative costs and potential performance limitations of various control strategies
- Potential balance-of-plant impacts
- Environmental regulations for plant discharges (air, water, solids)

Our team has supported plants evaluating mercury control options since 1990, including conducting mercury control demonstrations at more than 100 plants. We developed a coal-based mercury control technology to reduce operating costs and potential balance-of-plant impacts. We have internationally recognized mercury control experts on staff. Put our expertise to work for you to save you money and reduce risks of non-compliance.

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.

Contact us today to learn more about ADA’s M-Prove Technology and our other products and services.

M-Prove™ Coal Additives | RESPond® Flue Gas Conditioning | ADAir™ Mixer | ACI & DSI Equipment