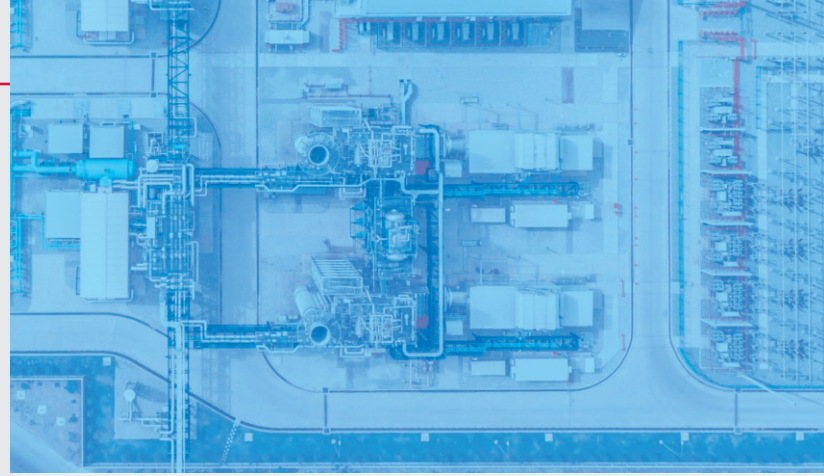


Catalyst Maintenance does not equal Full System Emissions Compliance

Catalyst life is critical to power plant operations, but it is only one component of a complete and fully integrated emissions system.

And optimizing emission system performance and lifecycle cost is much more than managing catalyst replacement intervals.

Integrated solutions are required that can provide wrapped services designed to keep plants fully compliant, optimize performance, deliver fixed costs and peace of mind.



Understanding the Risks

US power plant emissions of Nitrogen Oxides (NO_x), Carbon Monoxide (CO) as well as other pollutants are regulated by the Clean Air Act of 1970 and subsequent 1990 CAA Amendments which established National Ambient Air Quality Standards and air permit programs in order to protect the public health and the environment. The EPA is the primary regulating authority with state and local regulatory agencies tasked to establish and enforce permit requirements.

Key stakeholders must understand the permits and regulations for the continuous monitoring of emissions. While most permit violations are unintentional and could be the result of equipment failures or maintenance issues, there are penalties:

- Failure to properly operate a power plant in conformance with applicable permit limits may lead to civil penalties of up to \$37,500 per day per violation.
- In the case of an individual committing criminal or willful violations of the CAA, the EPA has authority to assess fines and seek imprisonment.
- Willfully operating a plant while not in compliance is a federal crime, and the individual whose name is on the permit is personally liable.

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