



# Performance Monitoring Guidelines for Power Plants

Guidelines for Engineers Worldwide

## ASME PTC PM – 2010

These Guidelines cover fossil-fueled power plants, gas-turbine power plants operating in combined cycle, and a balance-of-plant portion including interface with the steam supply system of nuclear power plants. They include performance monitoring concepts, a description of various methods available, and means for evaluating particular applications.

Since the original publication of these Guidelines in 1993—then limited to steam power plants—the field of performance monitoring (PM) has gained considerable importance. The lifetime of plant equipment has been improved, while economic demands have increased to extend it even further by careful monitoring. The PM techniques themselves have also been transformed, largely by the emergence of electronic data acquisition as the dominant method of obtaining the necessary information.

### These Guidelines Present:

- “Fundamental Considerations”—of PM essentials prior to the actual application, so you enter fully appraised of all the requirements, potential benefits and likelihood of tradeoffs of the PM program.
- “Program Implementation”—where the concepts of PM implementation, diagnostics and cycle interrelationships have been brought into closer conjunction, bringing you up-to-date with contemporary practice.
- “Case Studies / Diagnostic Examples”—from the large amount of experience and historical data that has been accumulated since 1993.

**Intended for** employees of power plants and engineers involved with all aspects of power production.

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