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Gas Turbines Inlet Air-Conditioning Equipment

Performance Test Codes for Engineers Worldwide

ASME PTC 30.1-2007

ASME PTC 30.1 provides uniform test methods for conducting and reporting thermal performance characteristics of mechanical draft air-cooled steam condensers (ACC) operating under vacuum conditions. It provides rules for conducting acceptance tests, along with guidelines for monitoring thermal performance and conducting routine tests. The test can be used to determine compliance with contractual obligations; and the Performance Test Code can be incorporated into contractual agreements.

ASME PTC 30.1 offers rules for determining the thermal performance of the referenced equipment with regard to the steam flow capability while meeting any applicable fan power guarantees. This steam flow capability may be alternatively expressed as a deviation from design flow capability, deviation from design turbine backpressure, or as the absolute value of the steam turbine backpressure. This Performance Test Code also provides procedures for assessing compliance to specified dissolved oxygen and specified condensate temperature, although it does not address procedures for assessing noise.

Careful application of ASME PTC 30.1 will lead to more standardized performance-testing that can be conducted on a regular basis to facilitate contractual and purchase agreements among all parties.

Intended for those engaged with contracting for air-cooled steam condensers within electric-utility power plants, industrial plants, process plants and commercial installations, including: equipment and systems test engineers, instrument engineers, industrial and power plant engineers, steam turbine manufacturers, instrument manufacturers, A/E firms, and third-party testing agencies.

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