Power Plant Performance Testing

History of Experience
Demonstrating the thermal performance of your power plant can be critical to its financial success. Serving customers since 1945 with our proven and long-established power plant performance test group, GE is uniquely positioned to meet your needs.

GE currently conducts over 400 thermal performance tests each year, on gas turbine, steam turbine, and combined cycle power plants from all manufacturers. When GE conducts your performance tests, you gain the high level engineering expertise of a trusted name in the power generation industry.

Features and Benefits
Results Summary. At the conclusion of every performance test, GE provides the customer with a comprehensive report that includes:

• Succinct summary of test results which can be used to document plant performance for management, regulatory agencies and parties with whom you may have power purchasing or tolling agreements
• Detailed data, explanations, and calculations that enable plant engineers to:
  — Trace measured data to final results
  — Provide records for future comparisons

Flexible, worldwide response. GE has a global force of performance test specialists who can respond quickly to customer needs based on changing outage dates. Our extensive inventories of precision instrumentation at two full-service calibration laboratories allow us to meet testing needs for:

• A single day consult
• Full-scale tests with 100s of precision instruments

Industry expertise. With extensive knowledge of Performance Test Codes (PTC) and membership on several ASME PTC Committees, GE also provides:

• Vital insights on code test requirements and expectations
• Worldwide testing expertise that includes several international codes and standards.

Applications
Capacity testing. GE acts as a third party to demonstrate a power plant’s performance capability in accordance with customer power generation agreements—and to determine operational capability used for capacity payments and dispatching priority.

Acceptance testing. On behalf of the customer, GE can conduct performance testing that evaluates compliance with contract performance guarantees for a major unit upgrade or a new unit installation.

Difference testing. Working with the customer, GE can help evaluate return on capital improvements by:

• Identifying degradation of operating equipment
• Recovery of performance following a major outage

To learn more about this offering, contact your GE sales representative or visit powergen.gepower.com.

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