

NEW TECHNOLOGIES

FERN ENGINEERING's continuing involvement in new technologies working with organizations such as the Electric Power Research Institute (EPRI), the Combustion Turbine & Combined Cycle Users Organization (CTC²), the US Navy, and the Gas Research Institute (GRI) has helped us to enhance capacity and performance, and reduce O&M costs for many clients. Perhaps we can help you with specifications, procedures, and design reviews to obtain the full benefits of new technology. The following table contains a brief resume of some of our new technology products.

Product	Client	Date
Generator Performance Monitoring Techniques Survey	CTC ²	2004
Axial Compressor Performance Maintenance Guide Update	EPRI	2004
Remaining Life Module (RLM) Spreadsheet Software	EPRI	2004
Start-Up Diagnostics Module (SUDM) Spreadsheet Software	EPRI	2004
Test Protocols for Combustion Turbine Inlet Cooling with Foggers	EPRI	2004
Assessment of Emerging Combustion Turbine Capacity Enhancement Technologies	EPRI	2003
Blade Path Temperature Spreads Correlation	CTC ²	2002
Combustion Turbine Performance Monitoring Software Survey	CTC ²	2002
Chillers for Combustion Turbine Inlet Air Cooling	EPRI	2002
Cost Benefit Analysis of Compressor Blade Geometry Restoration	CTC ²	2001
Strategic Capacity Augmentation Analysis and Database (SCAAD) Software	EPRI	2001
Combustion Turbine Spray Cooler Guide	EPRI	1999
Strategic Capacity Axial-Compressor Maintenance Program Upgrade (SCAMP+CC)	EPRI	1999
Augmented Gas Turbine Engine	US Navy	1999
Axial Compressor Performance Maintenance Guide	EPRI	1998
Strategic Capacity Axial-Compressor Maintenance Program (SCAMP)	EPRI	1998
Inlet Air Spray Cooler for Gas Turbine Power Augmentation	EPRI	1997
Material Considerations for HRSGs in Gas Turbine Combined Cycle Plants	EPRI	1996
Gas Turbine and Combined-Cycle Capacity Enhancement (2nd Interim Report)	EPRI	1995
Gas Turbine and Combined-Cycle Capacity Enhancement	EPRI	1993
Perf. Diagnostics Software for GTs in Pipeline & Cogeneration Applications (PEGASYS)	GRI	1989
Gas Turbine & Combined Cycle Performance Monitoring Software (Efficiency Map)	EPRI	1984

If you'd like to discuss how Fern could use new technology to help you with your turbomachinery needs, please contact Fern's Philip Levine at plevine@fernengineering.com.