



**TURBINE**

**DIAGNOSTIC**

**SERVICES INC.**

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1/13/05

## PRESS RELEASE

**Turbine Diagnostic Services Inc.** is proud to announce the completion of the first year (November 2004) of testing of our first complete **TurboNet DASH 1®** DCS structured Turbine Generator Control System installation.

The operation of this system over the last year has been flawless. The system has had five hours of downtime due to the control system in the last year. This computes to 99.94% availability. "This is a major feat considering that the system is the first installed" said Ron Rubrecht, President, Turbine Diagnostic Services. No software glitches have been found that would hamper operation of the turbine. The turbine started and went online on the first attempt, and required only minor tuning and no programming changes. This compares very well to other systems commissioned by TDS personnel such as the GE Mark V.

The system had been lab tested during the two previous years and no major flaws had been detected, however, this is the first time that the system had been proven in the field, where it counts. The system is in its fourth year of lab testing.

The vibration module has been in service for six months and already has provided a wealth of information. It has correctly measured (as verified by Bently 208 DAU) a shifting vibration signature on the generator field on this unit. It has also correctly tripped the unit, protecting the machine, upon a thrust bearing failure.

The TurboNet *DASH 1*® control system is designed to provide turbine control functions, but can be applied to plant DCS control applications. TDS has developed an automated upgrade of old Bailey Net90 control systems with automatic graphics and logic conversions to TurboNet *DASH 1*® protocol and can interface with the original Bailey termination boards to allow for the field wiring to remain undisturbed. TDS will be developing a similar approach to this automated upgrade for the WDPF DCS systems in the upcoming year.

Please consider the TurboNet *DASH 1*® system for your turbine control retrofit and DCS needs. Contact Turbine Diagnostic Services Inc. for additional information and demonstrations of the TurboNet *DASH 1*® control system. Additional system description information, TDS service descriptions and TDS contact information is located on our website at [www.turbinedoctor.com](http://www.turbinedoctor.com).