



TURBINE

DIAGNOSTIC

SERVICES INC.

www.turbinedoctor.com

2521 Success Dr. Unit 2, Odessa, FL 33556

E-mail: sales@turbinedoctor.com

Office: (727) 375-8700/ Fax: (727)375-8710/ 24 Hour Service Hotline: (813)969-0972

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TurboNet DASH 1®- PRESS RELEASE #3

Turbine Diagnostic Services Inc. is proud to announce the installation and commissioning of another **TurboNet DASH 1®** DCS structured Turbine Generator Control System, and will soon have a repeat customer (two unit site), in October.

The start up and commissioning of this second **TurboNet DASH 1®** and first Single Auto-Extraction machine was near flawless. This replaced a GE Mark 3 control system (retrofitted Mark 2 & Mark 3). The unit started, synchronized and went on line on the first try and loaded. Inlet Pressure and Extraction Pressure controls were proven with one programming flaw detected. The unit was performing so well, the customer would not let the unit come off line for the programming change. One minor programming change and minor parameter tuning and this unit is "Cadillac'in" (as stated by the customer), and without issues.

The operation of the **TurboNet DASH 1®** system is nearing 2 years and over the last year and a half, they have been flawless. The first system has had five hours of downtime due to the control system in the last year. The reliability of the systems in service now computes to **99.97%**. If not for the failure of an initial development loop controller module, none of the **TurboNet DASH 1®** production devices have sustained any mode of failure.

The **TurboNet DASH 1®** Vibration Module has been in service for 22 months and continues to provided a wealth of information. Vibration diagnostics and turbine supervisory instrumentation (TSI) trending provided with the incorporation of the integral **TurboNet DASH 1®** Historian is like having a unit sized TSI/Vibration analyzer ,and more, in service storing data all the time. This data can be correlated with load, pressures, or any other operating constraint in the control system, or that information provided by a Modbus communications to any other device. Wow, what a troubleshooting tool! It even monitors and logs operator actions. Time Trends, Polar Plots, X-Y Plots, and Shaft Centerline Plots are available to the operator for in house troubleshooting from the HMI screen.

Additional system description information, TDS service descriptions and TDS contact information is located on our website at www.turbinedoctor.com.