



TSM Enterprise CIM

Thermal Performance Cycle Isolation Monitoring Software

In today's power industry, plant personnel have fewer resources available to monitor one of the most critical aspects of a power plant—thermal performance.

OVERVIEW

TSM Enterprise CIM (Cycle Isolation Monitor) is a unique software product designed and developed for advanced cycle isolation and secondary cycle leakage predictions. This is a valuable tool for any thermal performance program to quantify generation, heat rate and flow loss from valve problems.

Generating plants often suffer from power losses due to leak-ages through valves that are faulty or do not seat correctly. Often these losses are significant and can be difficult to quantify. With TSM Enterprise CIM, plant personnel can quickly detect and estimate leak-age losses (in MWe & BTUs) in a plant cycle.

Convenient input forms for each valve are available for easy access to add or edit valve information. Data for each valve are entered into TSM Enterprise CIM, producing results from advanced cycle isolation loss calculations. These calculations are then graphed and reported to monitor valve degradation over time.

TSM Enterprise CIM is unique in offering up to five different methods to predict valve leakages, providing the user with confidence in the results. This information is then used to prioritize maintenance and repair of valves.

The software takes inputs from a plant walkdown or directly from the plant computer. These inputs are used by TSM Enterprise CIM to estimate the leakage flow which is used to calculate megawatt or heat rate effects.

MODULES & IMPLEMENTATION SERVICES

TSM Enterprise includes a user interface into this family of calculation modules for use in the electric power industry to simplify and provide time-saving, convenient methods of tracking thermal performance in nuclear, fossil and combined cycle plant applications. Modules can be purchased as needed and added to the TSM Enterprise package at any time.

To complement the software, GSE TrueNorth includes services by experienced staff to install, configure and provide training at the plant site for use and application of TSM Enterprise.

BENEFITS OF TSM ENTERPRISE CIM

- Identify faulty valves.
- Establish a cycle isolation performance monitoring program.
- Recover lost megawatts and heat rate degradation.
- Reduce elapsed time between the start of a valve leakage and the correction of the problem.



COMPANY PROFILE

GSE TrueNorth services cover a wide spectrum within the power generation sector ranging from Engineering Programs related services in the power industry to plant Thermal Performance issues across the entire generation continuum. Additional areas of expertise include a complete array of Power Services associated with secondary plant equipment and a highly experienced Information Technology staff supporting our line of customized software products.

For more information contact:

GSE TrueNorth Thermal Performance

Jerry Munyan: +1.970.964.2745

Derek Horn: +1.970.822.9213

www.gses.com/truenorth

info@gses.com



ABOUT GSE SOLUTIONS

GSE TrueNorth is part of the GSE Solutions team that leverages five decades of proven industry experience to provide unique and essential engineering and workforce solutions, services and products focused on performance optimization, regulatory compliance, simulation, training, and staffing for customers worldwide.