



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 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.



True North Consulting
is now GSE Engineering,
Programs & Performance.

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The GSE Engineering, Programs & Performance (formerly True North Consulting) group supports operational excellence in the power industry. They leverage decades of specialized expertise in thermal performance and engineering programs that refine and update systems, to optimize performance and safety.