



TP-Plus CIM

The Next Level for Thermal Performance

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. In response to this need to assist the ever busy plant engineer, True North Consulting offers TP-Plus.

TP-Plus is a Thermal Performance engineering tool kit consisting of several unique 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.

TP-Plus includes a user interface into this family of calculation modules. Modules can be purchased as needed and added to the TP-Plus package at any time.

The TP-Plus family consists of many powerful Thermal Performance modules.

IMPLEMENTATION SERVICES

To complement the software, True North Consulting includes services by experienced staff to install, configure and provide training at the plant site for use and application of TP-Plus.

The True North guarantee is that when we leave your site you will know how to use the tools to improve your plant Thermal Performance.

TP-PLUS CIM

TP-Plus 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 leakages through valves that are faulty or do not seat correctly. Often

these losses are significant and can be difficult to quantify. With TP-Plus CIM, plant personnel can quickly detect AND estimate leakage 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 TP-Plus CIM, producing results from advanced cycle isolation loss calculations. These calculations are then graphed and reported to monitor valve degradation over time.

TP-Plus 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 TP-Plus CIM to estimate the leakage flow which is used to calculate megawatt or heat rate effects.

BENEFITS OF TP-PLUS 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.

CONTACT US!

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COMPANY PROFILE

True North Consulting is an Engineering Services company specializing in support of the electric power industry. Founded in 1999, True North has provided engineering based consulting services to the majority of US utilities and to several abroad. Our 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.

It is our goal and ongoing commitment to optimize these services with respect to cost, technical adequacy, and overall value to our clients. To meet this goal we continue to refine and update our staff and services through incorporation of technology and experience-based advancements.

True North Consulting Thermal Performance Division is headquartered in Montrose, Colorado with satellite offices in New Jersey, Idaho and Alabama.