

POWER GENERATION: ELECTRICAL EQUIPMENT SERVICES

SAMPLE SERVICES

NEW AND REFURBISHED EQUIPMENT PURCHASES

ENTRUST has the OEM, utility, and consulting experience to help ensure equipment meets the intent of the plant.

NERC

ENTRUST provides a complete set of testing and modeling services for generator control and protection systems and the required documentation to satisfy NERC compliance requirements for MOD-025, MOD-026, MOD-027, PRC-019, PRC-024, PRC-025, PRC-026, PRC-027, VAR-501-WECC, and other regional/ISO specific requirements.

OWNERS REP – FIELD AND SHOP SURVEILLANCE

ENTRUST has a large staff of field engineers with decades of OEM and consulting experience available to help oversee the workmanship and quality of shop and field work. This can include new equipment manufacturing, commissioning/testing, calibrations, factory/site acceptance tests, outage oversight, and major maintenance work (e.g. rewinds)

ROOT CAUSE ANALYSIS

ENTRUST follows a data and fact driven process to arrive at the most probable root cause with recommendations to avoid reoccurrences. Support may include insurance settlements and OEM/service supplier discussions.



Equipment Expertise:

- Generators
- Exciters
- Control Systems
- Automatic Voltage Regulators/
Power System Stabilizers
- Transformers
- Motors
- High voltage bushings/
connections
- MCC
- Switchgears
- Auxiliary Systems



SAMPLE SERVICES (CONT.)

ELECTRICAL/CONTROL SYSTEM SUPPORT

ENTRUST has a large staff of experienced electrical and control engineers. The team has experience with troubleshooting dated equipment, designing new upgrades for plant systems, and becoming a trusted partner with end users.

EQUIPMENT HEALTH ASSESSMENTS

ENTRUST has completed over 400 equipment health assessments to date, which help owners, operators, and asset managers understand existing equipment current condition, risks, and ultimately develop maintenance and/or replacement strategies.

OUTAGE PLANNING

ENTRUST has the experience planning major maintenance, including timing, budgets, and contingency items. Outage planning support can include bid specifications, participation in pre-outage meetings, shop/vendor vetting, and retrofit replacement support.

O&M OPTIMIZATIONS

ENTRUST has the OEM, utility, and consulting experience to help plan costly O&M expenditures based on equipment health indicators, equipment failure modes, and our extensive industry experience.

NERC COMPLIANCE MANAGEMENT

ENTRUST offers NERC program management services that focus on general compliance management, organization, deadlines, audit support/prep, coordination of future obligations, document retention and organization, reporting, risk assessment, compliance strategy, internal controls, internal documentation development (RSAWs) etc.



TEST & INSPECTION DATA DISPOSITION

ENTRUST can review and disposition electrical test data, crawl through inspections, and borescope findings to help the plan return to service in a safe and efficient manner. ENTRUST also offers 3rd party review of service supplier recommendations.

TECHNICAL TRAINING

ENTRUST offers both engineering and operator/maintenance technician training customized to your site and powerplant equipment

BUY/SELL DUE DILIGENCE

ENTRUST routinely provides buyer side due diligence to efficiently inform perspective owners on the current and past condition as well as the short and long term maintenance requirements for potential purchases.

EXPERT WITNESS SERVICES

ENTRUST assists owners/operators with expert witness support, as needed, if issues arise with projects or maintenance activities.