



ADVANCED MONITORING & PREDICTIVE SOLUTIONS

AMPS

DRIVE PROFITABILITY WITH DATA INTELLIGENCE

Know what lies ahead and how to go forward. Our advanced monitoring and predictive solutions (AMPS) interprets data to deliver insights on improved plant availability, reliability, and profitability. Proven in both baseload and peaking applications, our AMPS service analyzes your operations across time to deliver data-driven action plans that make the best use of your resources.

Our AMPS technicians serve you from dual NERC-compliant remote operating centers (ROCs) with access to 24/7 engineering expertise. Here, we detect subtle anomalies before traditional alarms activate, so that you know about failures before they happen. Upon alert, your team receives a prescriptive advisory that covers event causation and fault diagnostics, which lets you procure repair parts and plan outages on your schedule.



TOP ADVANTAGES

ANTICIPATE EVENTS. TAKE ACTION.

DETECT EMERGING TRENDS and pending faults

ADDRESS FORECASTED ISSUES based on prescriptive guidance

SCHEDULE MAINTENANCE PROACTIVELY for a planned outage

REDUCE UNSCHEDULED DOWNTIME and increase reliability



VIGILANT

2

**REDUNDANT
NERC-CERTIFIED
ROCs**



SUPPORTIVE

24/7

**EXPERT
ASSISTANCE**



EXPERIENCED

60+

**UNITS
MONITORED**

ADVANCE OPERATIONAL PERFORMANCE WITH ANALYTICS

AMPS empowers your O&M teams with information on what issues may arise, how to prioritize activities, and when to allocate resources. We use machine learning and advanced pattern recognition technologies to create a trend analysis of your site's load, ambient, and operational profile. Combining a global record of facility performance and failures with real-time data from your site—including turbine, pump, compressor, and generator matched with speed, bearing temperature, vibration, and load—you receive an accurate and proactive roadmap to peak efficiency.

The screenshot displays the AMPS interface for a 'Warning' event. The event title is 'TLO Sump C Temp High' with a timestamp of 12/03/2023@:45 PM (UTC). The case number is 12/03/2023@:45 PM (UTC). The site is APZ1, Unit 01, Engine Model: LM6000, and Unit MW: 22.01 MW. The observation notes that the C-Sump Temperature for TLO Scavenger has surpassed the monitored setpoint of 310°F. The current temperature is 320°F, and the standard operating range is 290-320°F. The alarm setpoint is fixed at 320°F. The online recommendation includes a visual inspection of the unit to identify any leaks or obstructions, and to verify that the levels of TLO/GLO oil tanks are within the normal range. The offline recommendation refers to Table 8.5, Group 6 / Table 8.6 for troubleshooting guidance in addressing Temperature Sensor/Cabling issues. Comments include 'TO FROM INLET AMBIENT TEMP TT64299: 82°F' and 'TLO- SUMP C SCAV OIL TEMP - A TE6186A: 301°F'.

ACTIONABLE INSIGHTS Prescriptive Advisories

Receive immediate notification of anomalies. AMPS operators dispatch either a Warning Advisory or Critical Advisory with detailed observations, as well as online and offline recommendations.

Performance Reports

Stay at peak performance. Monthly meetings and reports provide a long-term view of asset performance and summarize plant operations, including key events, observed conditions, maintenance guidelines, and open cases.

CONNECTION PROTECTION Cybersecurity

Keep your data protected and compliant with government and regulatory requirements. Our certified cybersecurity professionals provide endpoint detection and response (EDR) technology, security information and event management (SIEM) solutions, robust authentication and controls, and specialized firewall integration.

The screenshot shows the AMPS dashboard with a 'Site' overview on the left and a 'Unit06' overview on the right. The 'Site' overview includes a 'Navigation Menu' and a 'Consolidated Performance Page' with various charts and data points. The 'Unit06' overview includes a 'Navigation Menu' and a 'Consolidated Performance Page' with various charts and data points. The dashboard displays real-time data for various components including TLO, GLO, Fuel/Water, Turbine, and Generator.