

Features	Benefits
Dresser-Rand personnel with rotating equipment core competence, and back-ups (personnel and processes)	Reduces emissions by eliminating additional gaskets/leak paths
Outsourcing data analysis	Achieves optimum reliability for reduced maintenance and downtime
Worldwide experience	Client staff focuses on production
Program management	Access to best practices and lessons learned from a worldwide equipment fleet
Program continuity and consistency	High return on investment
No software or hardware required	Low investment cost

Equipment Advisory Service & Evaluation (EASE)

Dresser-Rand's EASE program offers operations and maintenance decision support. By working with client-supplied data, we can review and analyze specific data points. From this data, we develop a monthly report with recommended optimization improvements on critical equipment. This comprehensive asset management strategy helps prevent unplanned outages, identifies ways to optimize equipment and can lower operation and maintenance costs.

Access to machinery specialists. Many clients face staffing shortages. Our EASE program helps clients solve staffing challenges by outsourcing the equipment monitoring activities to machinery specialists. The EASE program provides long-term continuity and consistency of condition-based maintenance plans, regardless of staff levels.

Prevent unplanned downtime. The EASE program provides early warning of performance and mechanical degradation, which can help clients avoid costly repairs and lost production.

Identify ways to optimize cash flow. The EASE program periodic analyses detect opportunities to increase throughput, availability and efficiency, which can positively impact the bottom line.

Lower maintenance costs and extended periods between overhauls. Based on the results of the periodic equipment assessment, the frequency between overhauls can often be extended, decreasing maintenance costs. The EASE program also offers the following advantages:

- Low monthly fee (less than the cost of a service call)
- No additional software or hardware required (for most applications)
- No additional staff or specialists required



FIELD OPERATIONS

Service Contracts

Availability Plus® (A+) Service

Dresser-Rand Availability Plus® Service Contracts provide comprehensive machinery care by leveraging the support of the entire D-R organization through dedicated technical resources. They are available for the following equipment:

- Steam turbines
- Gas turbines
- Centrifugal compressors
- Axial compressors
- Reciprocating compressors
- Natural gas-fueled engine

Availability Plus

Availability Plus comprises the Dresser-Rand suite of value-added products and services aimed at increasing the availability of clients' equipment and reducing the total cost of ownership. Availability Plus includes three levels of service contract offerings: basic, enhanced and comprehensive.

Benefits of Availability Plus Service Contracts

- World-class safety standards embedded in all activities
- Increased production/revenue from improved equipment availability and performance
- Predictable maintenance budgets
- Dedicated OEM-certified technical resources
- Technology, expertise & financial strength of Dresser-Rand



- Faster and leaner execution because of Dresser-Rand's experience and access to information

Proven Expertise and Market Recognition

Dresser-Rand has more units installed than anyone else, with roots that date back to 1840, and has produced more than 94,000 rotating equipment units.

Understanding the complexities and uniqueness of our clients' requirements is a hallmark of Dresser-Rand. We recognize the importance of keeping equipment up and running and realize that downtime affects your profits.

For a complete list of products and services, visit www.dresser-rand.com or contact the following:

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(including Gulf South West region)
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Houston, TX 77043 USA
Tel: (Int'l +1) 713-467-2221
Toll free: 1-877-590-7858
(24 hour, US only)
email: fss@dresser-rand.com

Field Services Gulf South East

Dresser-Rand
2444 Dumont Drive
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Hamilton, OH 45011 USA
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Service Contracts

Dresser-Rand service contracts are tailored to client needs, and focus on disciplined, long-term strategic decisions that optimize maintenance over the life of the equipment, combining:

Level 1: Basic

Level 1 comprises Technical Advisory Services, providing insight into the thermodynamic and mechanical performance processes and equipment. These services are delivered in either continuous or periodic mode.

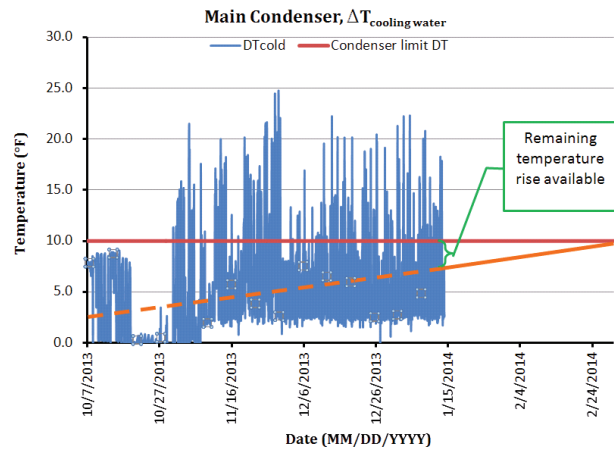
Continuous Service - EASE™ Condition Monitoring

Continuous service is provided by D-R's proprietary Equipment Advisory Service & Evaluation (EASE™) program which analyzes available control system equipment and process data, delivering management-ready information. Data for EASE is a daily, 24-hour run-time upload (five-minute sampling rate preferred) from your control system to a secure D-R FTP site. Your data is downloaded daily into the EASE analytical model of your system which we develop after a site audit and consultation with you. Deliverables from EASE are:

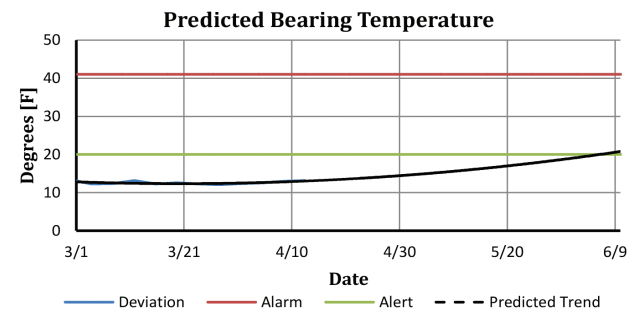
1. Daily D-R analyst review of system and equipment operations
2. Immediate advisement of any critical findings
3. Monthly comprehensive report
4. D-R Site Service Manager reviews the observations and recommendations in the monthly report with the client.

Periodic Service - Site Audits

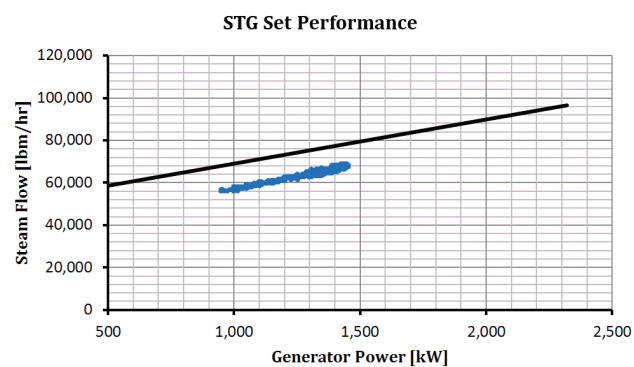
Periodic service includes a site audit assimilating system information, e.g., equipment specifications, process conditions, operating envelope, etc. as input into a site-specific analytical model of your plant. The deliverable is a comprehensive report including comparison plots of process inputs, i.e., temperature, pressure and flow which are compared to critical client-specific parameters, i.e., power, vibration, temperature, etc. of key system and equipment components. Analysis of these data plots and other analytical tools constitute the basis for system and equipment assessments. This provides actionable information to improve health and performance, resulting in improved profitability. The site audit uses control system data and data gathered with D-R-supplied analysis.



Observation: Temperature rise of the condenser cooling water is increasing with time and may reach its alarm within two months.
Recommendation: Inspect the condenser system to ensure an adequate flow of water is being supplied.



Observation: Bearing temperature is trending upwards and may reach alert in one month.
Recommendation: Lubrication oil system inspection and analysis should be performed and bearing temperature closely monitored.



Observation: The turbine appears to be operating at a higher efficiency than the rated condition.
Recommendation: Steam flow measurement is inaccurate, and the meter should be recalibrated.

Level 2: Enhanced

Level 2 service contracts include a combination of preventive, corrective, and/or major maintenance tailored to meet specific client requirements. Depending on your particular operational constraints, if EASE is included, maintenance can be condition-based resulting in significant savings from extending time between maintenance events. These agreements are custom-designed to meet specific client requirements and can include outage planning and documentation, fully equipped and trained crews, supervision, technical advisors, parts, repairs, and logistics.

- Comprehensive Site Service Manager support (resident at client site or remote dedicated support)
- Field services (scheduled)
- Repairs, overhauls (scheduled)
- Parts agreements, maintenance kits
- Inventory management, preservation and storage
- 24/7 technical support (on call)
- Online / real time remote access for enhanced troubleshooting/technical support
- Envision (D-R proprietary software for enhanced condition and performance monitoring)
- Engineered solutions
- Product training

Level 3: Comprehensive

Level 3 service contracts include EASE plus preventive, corrective and all major maintenance (on-condition, scheduled and unscheduled).

- Full responsibility/control of all maintenance activities (routine, preventive, predictive, and corrective)
- Operation and maintenance
- Field services (unscheduled pre-priced or inclusive)
- Repairs, overhauls (unscheduled pre-priced or inclusive)
- Operational risks sharing (optional)
- Service guarantees (optional)
- Performance bonus/penalties (optional)

