ORAP®

PARTS-TRAC™

Major Maintenance & Capital Parts Planning

Critical and Capital Parts

Actively track the expected and expended life of each serialized part, as well as its location, over time.

The application is flexible and allows for multiple ages to be tracked simultaneously (e.g. factored hours, equivalent starts, accumulated cycles). Entire sets can be installed or removed with a single action, tracking all of the resulting serialized part transactions.

Reports are available to support all aspects related to specific equipment, sets, or serial numbers, and for the site or fleet related to planning upcoming outages or part purchases based on detailed part life information.

> ***"The service paid for itself within one year."***

For one of the world's largest investor-owned power and gas companies, SPS is currently tracking over 900 sets and approximately 40,000 serialized parts through ORAP Parts-Trac™. We have been told by the client the service has paid for itself within 1 year of its implementation.

WEB-BASED SYSTEM FOR MANAGING YOUR HIGH COST CAPITAL PARTS INFORMATION.

Capturing expected and expended life of each individual serialized part for parts planning and procurement

TRACKING YOUR GAS TURBINE HOT GAS PATH PARTS

Standard Data Collection and Reporting Platform

- Analytics - Information at your fingertips • Transparent
- Auditable

Quality Assurance Metrics

- Understand Refurbishment Yields
- Component Verification

Advanced Planning and Parts Procurement

- Optimizing Capital Spend Profile
- Minimizing Impact of Manufacturer Lead Time

Maintenance Interval Extension

- Awareness of High-time Parts
- Maximizing Useful Life

Capital Parts Valuation Support

- Service Agreement Negotiations
- Inventory Accounting

Business Infrastructure Process

- Formal Documentation
- Fully Supported and Backed-up

Safety

- Tracking All Design Life Limits

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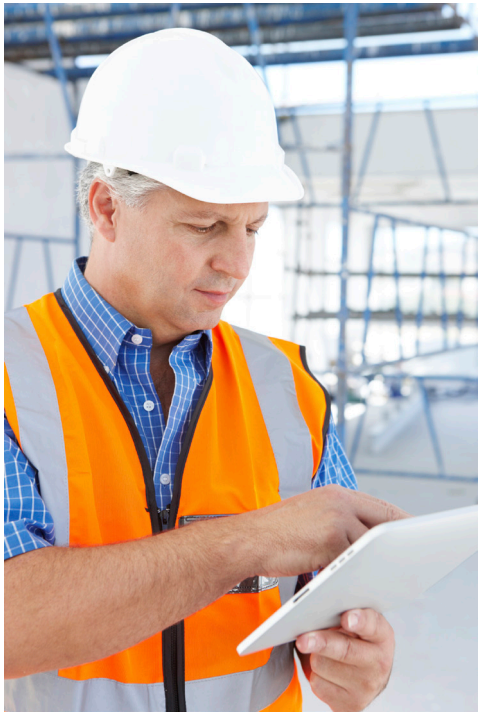
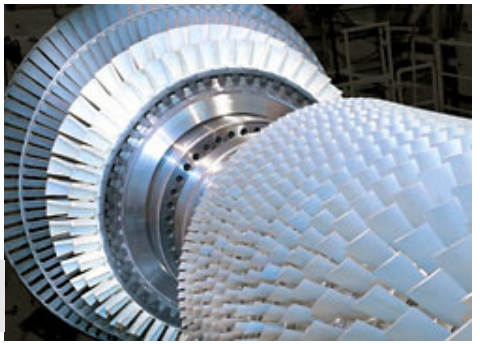
SPS® DATA FIRST

WEB BASED REPORTING

Outage Planning



Outage Planning is a key function of the ORAP Parts-Trac service. Knowing the "expended life" of each individual serial number, and what its projected inspection intervals and life limits are, allow maintenance staff to fully understand which parts need to be removed at the next outage. It also allows for the development of repair requirements and procurement of replacement parts. Similarly, removing a part before it has reached its maximum useful life is an underutilization of the investment in that part. Lifetime extension of high cost capital parts provides real value back to the business.



Parts Valuation

There is a strong economic case for tracking "critical" parts within a fleet. As an example, a first stage row of blades on an F technology gas turbine can cost in excess of $5 million US dollars to replace and $750,000-$1Million to repair. The time & cost required to properly track these critical parts from a remaining life perspective, pales in comparison to the possibility that they exceed their assigned time at temperature limits and are not repairable as a result. Another example would be a case where an owner/operator takes the most conservative approach in removing, destructive testing, or even scrapping high cost parts, because with no accurate parts life information their continued use could pose a safety concern. A simple parts tracking procedure, well thought-out and executed, supports a more informed, accurate business decision at a fraction of the potential incurred cost.

Automate Your Data Collection

Capture your aging values directly from the plant information architecture, reducing manpower demands on your plant staff.

ORAP®
ASSET INSIGHT

Leveraging Experience and Expertise

Workshop

SPS has implemented ORAP Parts-Trac on 200+ units across many different OEM equipment designs. Critical to the up-front planning process is the workshop that SPS Engineers conduct with all client stakeholders. This workshop provides a framework for the implementation of Parts Tracking and incorporates the "Best Practices" and experience that SPS has gathered since the product's inception in 2004.

Upon completion of the workshop, participants will have a detailed Project Definition document that will guide the Project Manager and Key Stakeholders with the implementation and ongoing management of their parts tracking solution.