



Is your plant's asset information buried in database graveyards?

Benefits

- Improve overall plant reliability and availability
- Increase maintenance windows for cost-effective scheduling and planning
- Enable 24/7 data analysis of all critical and important assets through your existing equipment databases
- Prioritize work order requests
- Facilitate consistent system analysis for consistent results
- Tune and edit system models to capture tribal knowledge and unique system events
- Archive all events to document asset history for future root cause failure analysis follow-ups

Dig it up with SKF @ptitude Decision Support and improve plant reliability and availability

Today's plants are under increasing pressure to generate more power at the lowest possible cost, even as maintenance budgets shrink, senior staff retires and equipment ages. To help, many facilities are turning to reliability centred maintenance programmes.

But in order for these programmes to be effective, plants must be able to collect, organize and act on all the relevant asset data to ensure that the right maintenance is performed on the right equipment at the right time.



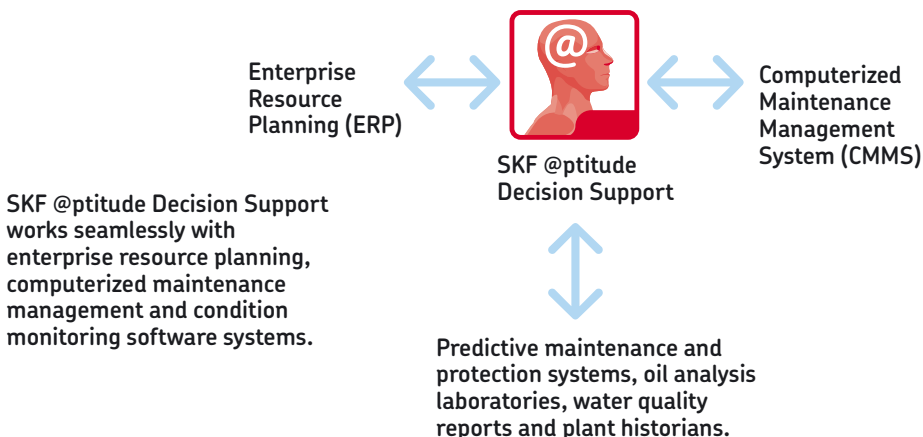
Unfortunately, for many facilities this data is buried in multiple database graveyards or in the minds of employees, leaving little hope of identifying, let alone prioritizing the work required to improve reliability and availability.

Enabling your predictive and condition-based maintenance programmes

SKF @ptitude Decision Support system puts the benefits of your predictive and condition-based maintenance programme derived from reliability centred maintenance within reach. By collecting and comparing all of your plant's data into proven empirical models for each asset, SKF @ptitude Decision Support software brings plant database graveyards to life. The system also enables the effective capture of tribal knowledge over time through the ability to edit and improve asset models based on learned experiences.

SKF @ptitude Decision Support facilitates accurate, timely, and consistent decision-making and work-order notification. The system replaces labour-intensive data analysis with automated procedures that provide information essential to machine and process analysis, diagnosis, reporting and corrective action – either in a single plant, or across multiple facilities.

Since helping the first power plant implement SKF @ptitude Decision Support system, SKF has developed and deployed over 50 unique asset models for critical and important pieces of equipment specific to power generation.





Increase the return on your maintenance investment with SKF

The whole idea behind the SKF 360° Solution is to help you get more out of your plant machinery and equipment investment. This may mean lowering your maintenance costs, raising your productivity, or both! Here are two examples of the SKF 360° Solution at work in the electric power generation industry.

The SKF @ptitude Decision Support system helped:

Achieve 95 %+ diagnostic accuracy at a 20 000 megawatt utility

The problem

A large North American utility company wanted to achieve top quartile plant performance in reliability, improve knowledge capture and reduce maintenance demands.

The SKF solution

SKF helped the company implement and fine-tune SKF @ptitude Decision Support system at nine coal-fired units. The system harvested data from the customer's off-line SKF @ptitude Analyst predictive maintenance system, critical machinery protection systems, PI data historian and off-site oil analysis provider.

The results

SKF @ptitude Decision Support helped the company:

- Reduce analysis time by more than 60 %
- Reach greater than 95 % diagnostic accuracy by the final tuning
- Identify underlying problems in condensate pumps and one boiler-feed water pump that could have tripped a unit

Reduce data analysis time by 70 % at a combined-cycle plant

The problem

A plant under construction in Spain needed an integrated equipment reliability system that would feed condition-based maintenance and on-line parameters into a decision support system for improved system reliability and plant availability.

The SKF solution

SKF implemented the SKF @ptitude Decision Support system on the plant's critical and important equipment, tuning it to capture predictive maintenance and operator driven reliability



data, critical machinery protection system data, process data and oil analysis data. SKF also integrated SKF @ptitude Decision Support with the plant's computerized maintenance management system for work order notification.

The results

SKF @ptitude Decision Support helped the company:

- Reduce data analysis time by 70 %
- Run the plant with a reduced staff while maintaining equipment reliability
- Capture operation and maintenance knowledge, and provide training for new employees

