

Risk Based Inspection

ASSET OPTIMIZATION WITH EMBEDDED RBI

Risk-based inspection (RBI) is the process of developing prioritized inspection plans for industrial equipment, using predictive models to determine the probability and consequences of failures. Embedded in IBM Maximo, the strEAM+ RBI module allows for a full integration of RBI in your asset performance management. The module provides unprecedented speed and cost efficiency in risk assessment and the optimization of inspection and maintenance strategies.

A trusted methodology to predict failures in the upstream and downstream petroleum, chemical and power industries, RBI has been adopted in other asset-intensive industries to cope with the challenges of competitive markets and regulatory pressure. Many companies are making the shift from time-based to risk-based inspection and maintenance. strEAM+ RBI helps to minimize unplanned downtime and maximize the lifespan of your assets. It provides the right information and knowledge to be confident about the use of limited resources.

TIME TO VALUE

Fact-based, actionable recommendations are worth a lot when you need to keep assets operating within set boundaries for safety, performance, compliance, and business results. strEAM+ RBI identifies the unknowns and cumulative risks of aging equipment. It facilitates the big step from reactive problem solving to predictive maintenance. It allows you to balance long-term performance improvements with quick wins. There is great value in the potential savings on maintenance and inspection, and you can earn back your investment within the year.

RISK ANALYSIS

Gaining the insight to make the right decisions starts with risk analysis. strEAM+ RBI uses qualitative and quantitative methods to identify the failure risks due to damage or deterioration, and the impact of such failures on HSE and business results. Built to identify asset integrity risks that can be controlled with analysis and prioritized inspection, strEAM+ RBI also allows you to customize the process for specific business and operational objectives. Designing new inspection and maintenance strategies that perfectly match the business goals and predicted risk levels is now easier than ever.

INTEGRATE RBI IN APM

This innovative module was developed in a strategic alliance between MaxGrip and Lloyd's Register Energy. The two industry leaders combined their expertise in asset integrity and practical experience in engineering and reliability, paving the way for a true integration of RBI in asset performance management. strEAM+ RBI not only ensures your compliance with safety regulations, it also leverages the investments already made in your EAM, by getting the most out of your assets at acceptable risk levels.



RBI methodology

STREAM+ RBI BENEFITS

- 40 to 90% reduction in deployment time compared to stand-alone applications
- 30 to 60% reduction in opened equipment items during shutdown intervals
- 50 to 90% reduction in inspection points compared to traditional API programs
- 80 to 95% reduction in failure risks

FOCUS LIMITED RESOURCES ON YOUR CRITICAL ASSETS WITH STREAM+ RBI:

- Implement a cost-effective alternative to traditional inspection and testing methods
- Rank assets with a configurable and powerful qualitative risk assessment system
- Predict the risk for selected assets through quantitative analysis based on industry standards
- Combine quick wins in uptime with long-term gains in overall plant reliability
- Break the information silos and connect people and departments through data sharing
- Comply with safety legislation and prove you have taken every appropriate action
- Develop optimized inspection and maintenance schedules for each asset
- Leverage existing EAM investments by getting the most out of your asset data

MEET ALL INDUSTRY STANDARDS

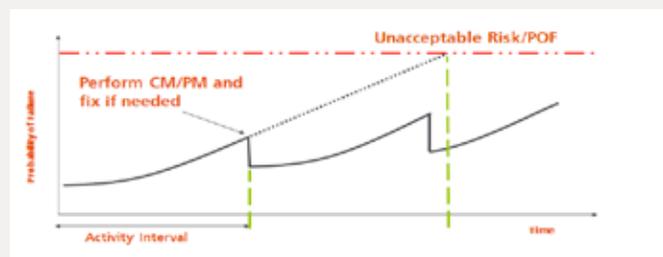
Having embedded the advanced RBI functionality in strEAM+ for Maximo, you meet all requirements for equipment assessment in the API 510, 570 and 580 standards. strEAM+ RBI also aligns with ISO 55000, the first internationally recognized standard for responsible asset management. ISO 55000 certification requires evidence of continuous improvement. strEAM+ RBI makes it easy to close the loop and ensure that all actions and recommended strategies are updated and analyzed in the system.

MANAGE ALL DATA AND KNOWLEDGE

Creating insight and transparency from a single data source, strEAM+ helps to break down information silos, improve organizational competency, and retain knowledge. Integrated with other strEAM+ modules, strEAM+ RBI allows you to take full advantage and control of your real-time operational and static data. No matter if it comes from production assets, work management, services or procurement, strEAM+ enables you to manage and use the data to optimize asset performance.

MAKE THE RIGHT CHOICES

In strEAM+ RBI, MaxGrip and Lloyd's Register Energy have brought together decades of industrial experience, engineering expertise and leading business practices. strEAM+ RBI delivers by safely reducing inspection and maintenance costs, in new and old production facilities, and in accordance with all external and internal regulations. Now you can make the right choices. Now you can increase uptime with tailor-made inspection and maintenance schedules for critical equipment. Now you can continuously improve.



Risk analysis

Powered by MaxGrip

strEAM+ is a solution of MaxGrip, the world's front-runner in Asset Performance Management. Directly embedded into your EAM system, strEAM+ ensures easy adoption, operational focus on reliability, data integrity and real-time insight into asset performance. strEAM+ is the best integrated software solution available today to efficiently balance risks and costs against your business objectives.

MaxGrip is innovative and ambitious. It is our mission to make the world a safer place. We believe that all asset-related incidents can be prevented. By analyzing risks and optimizing maintenance, we enable our clients to focus on their core business and make continuous improvement a way of life.

MaxGrip has an exceptional track record in bridging the gap between theory and practice. We live and breathe reliability, using only proven methodologies to help clients everywhere to meet their Asset Performance Management objectives. The world's largest enterprises already rely on MaxGrip every day.