Engineering Specialist Services – Assessment of plant

Risk-based inspection – taking an active approach

Risk-based inspection (RBI) covers more than the basics of engineering risk. By managing all risks associated with the failure or break down of plant, equipment and electrical systems you can optimize outage periods, take workplace safety a step forward and create rewarding opportunities for your business.

What does the service include?

We determine the scope and frequency of inspections based on the level of risk of failure of the plant. The process not only considers the health and safety risks but also the risks associated with business interruption, brand damage, market share, asset value plus repair and replacement costs.

The process includes developing a written scheme of examination that enables the output from RBI methodology to be put into practice.

Who does it affect and why?

Complying with health and safety legislation helps manage health and safety risks in the workplace but this does not necessarily mitigate the financial risk that a plant breakdown could cause. If a machine is out of action for an extended period then the costs could be significant.

A scheme of examination developed around the risks identified could reduce downtime and so contribute to greater efficiency and profitability. For example, infrequently used equipment could lead to the examination frequency being extended.

In addition you will also gain an increased knowledge of the risk of operating assets that have a high level of usage or is identified as high risk.

The key benefits of applying a scheme of examination tailored to the risks include reduction in the risk of failure, reduction in lost production time and reduction in preparation and access costs.

RBI can be applied to all types of plant, including specific statutory[1] plant and electrical systems.

Our approach

The first step is to assign a trained Zurich facilitator who will assess the levels of risk associated with the plant along with a team of experts from both the customer and Zurich.

Using the output from that session the facilitator compiles a written scheme of examination which details the examinations needed to mitigate the risks the plant faces.

The results from these examinations are then fed back into the RBI process to ensure that changes to the risk are captured by the process, hence ensuring that the RBI is always relevant and current.

Linked services include non-destructive testing, remote visual inspection and compliance audits.

[1]Specific statutory plant is a term we use to describe:

Pressure systems as defined in PSSR and identified in a written scheme as requiring examination by a competent person.

Lifting equipment as defined by LOLER and requiring periodic examination by a competent person.

Work equipment defined in PUWER and either identified in a risk assessment as requiring period inspection by a competent person or power presses as defined in PUWER and requiring periodic examination by a competent person.

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