

Risk Based Inspection

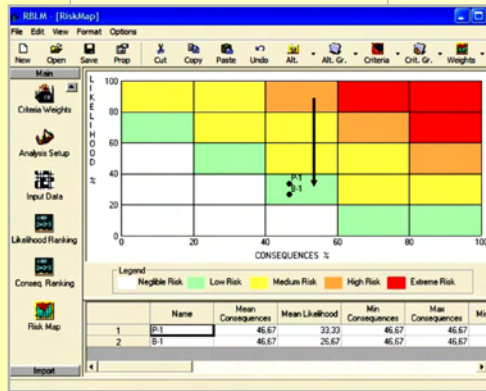
Risk based inspection and maintenance for industrial equipment

Implementation of Risk Based Inspection (RBI) concept leads to:

- ranking elements in plants by the degree of risk in operating
- elaboration of an optimized inspection plan which sets the volume of control for each element of the installation so it works in safety condition. In order to quantify the risk, the plan provides a detailed assessment of high risk items in-service
- the remaining lifetime assessment of the equipment



RBI = Safety exploitation + cost reduction



Expert system used

- iRIS-Power - for risk assessment in power plant
- ORBIT Onshore - for risk assessment in petro chemistry
- ORBIT RCM - for power plant maintenance

Standards/ Procedure used for inspection

- RIMAP Procedure and SR EN 13445:2009 (UE)
- API 580, API 581 2009 (USA)

Scope:

- Petro chemistry (distillation columns, catalytic cracking etc.)
- Thermo power plant (steam boilers, steam turbines, electrical equipment etc)
- Metallurgy (rolling mills, blast furnaces etc.)
- Cement industry (drums etc.).

Benefit:

- Significant financial savings by reducing inspection costs, reducing production losses since extension of duration between successive inspections and reduce overall maintenance costs
- Increase safety in operating of equipments, increase safety of people and avoid the risk of environmental pollution
- Remaining life prolongation of the equipments through an advanced assessment level



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