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Reliability Engineering

A Product Information Sheet by the Plant Engineering Business Area

To both optimise reliability, availability and maintainability (RAM) of a complex plant and to maintain it on a high level, a number of important factors usually have to be observed including:

- The development of characteristic parameters in time, e.g. output, costs, resources (staff), spare parts storage
- The aging of components and the maintenance strategy applied
- The connection of resources and plant performance

This is especially true for the management of production processes which are of particular importance either economically or for safety reasons. Today we not only have the classical and well established engineering methods but also the modern tools of Reliability Engineering. These enable the analysis of reliability and availability and the optimisation of maintenance and logistics whilst taking cost-/benefit-aspects into account.

Reliability Engineering comprises a spectrum of tools including system simulation, fault tree analysis or LCC- (Life-Cycle-Cost) analyses. With the help of these tools a model of the technical system can be creat-

ed to allow variants of the system design or different scenarios of maintenance to be discussed. Operational experience or generic data bases are taken into account.

TÜV SÜD services

As an independent consultancy service provider, TÜV SÜD performs and/or reviews all types of stress analyses including:

- Evaluation of operational experience and application of generic data
- System modelling and simulation with analysing tools at the cutting edge
- Derivation of customer specific solutions appropriate for your plant

Your Benefits

The systematic involvement of all our experts and the interdisciplinary know-how of our expert teams guarantee excellent and cost-efficient results, even for challenging technical applications.

- ▶ Early identification of potential weak-points during planning and design phase
- ▶ Quantitative evaluation of the importance of single subsystems or components
- ▶ Strategic measures to optimise your maintenance

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