

AL Safety Design

RAM Analysis

AL Safety Design Ltd

is an independent consulting firm, which was founded and started its operation in 1991.

The services include:

- Reliability,
- Safety,
- Product Assurance and
- Conformance Engineering

Our main office is in Helsinki (Espoo), Finland. The company is privately owned by its employees.

Our international customers include major companies in energy technology, chemical industry, aerospace and electro-technical industry.

The assignments are carried out according to the latest Reliability, Safety, Quality and Environmental standards.

We enable our customers to develop superb technology products

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RAM analysis supports design of technical systems and products, predicting *production losses and maintenance costs for different system alternatives*. Analyzing failures and repairs the system bottlenecks are identified and the use of maintenance resources optimized:

- **RAM Analysis - RAM Models**
 - “bottlenecks” analyzed using RAM model and **RCM***
- **Predicted Cost of Unreliability**
 - evaluation of repair, service and shutdown costs, **LCC***
- **Requirements for Suppliers**
 - availability guarantee, agreements, RAM specifications
 - RAM documentation
- **RAM follow-up and Data Surveys**
 - failure and disturbance databases and reporting systems
 - RAM data collection and evaluation at sites
- **Training Courses:** see www.reliabilityacademy.fi

Our customers: ABB, Neste Oil, JP International, Metso, Sandvik, STX Europe, Boise Cascade (USA), Fortum, Borealis, Foster Wheeler Energy, DNV etc.

* RAM=Reliability, Availability, Maintainability.

LCC= Life Cycle Costs. RCM = Reliability Centered Maintenance

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