

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.

Reliability, Safety and Product Assurance Services

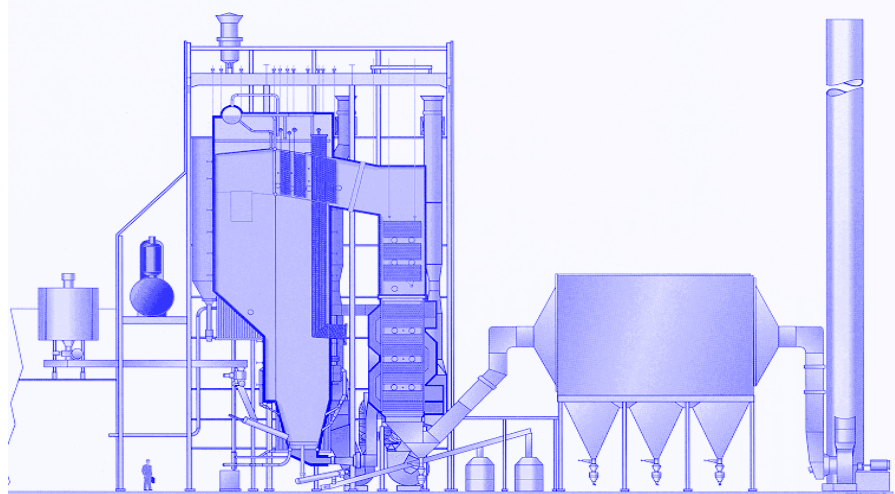
AL Safety Design Oy

Yläportti 1B
02210 ESPOO

tel : 09-884 3066
fax : 09-863 0454

Email: info @ alsafety.com

WWW.ALSAFETY.COM



AL Safety Design supports technical system and high technology product design by analyzing the effects of system failures and predicting *production losses, shutdowns and maintenance costs for different system alternatives*. We have used RAM models in various technical fields in order identify production bottlenecks and optimize the use of maintenance resources. Our services:

- **RAM Management and Documentation**
 - as part of the system design or procurement project
- **RAM Analysis - RAM Models**
 - “bottlenecks” analysis using RAM modeling and **RCM***
- **Predicted Cost of Unreliability**
 - evaluation of repair, service and shutdown costs, **LCC***
- **Requirements for Suppliers**
 - availability guarantee, agreements, RAM specifications
- **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, Sandvik, STX Europe, Boise Cascade (USA), Fortum, Metso, Borealis, Foster Wheeler Energy, DNV etc.

* RAM=Reliability, Availability, Maintainability.

LCC= Life Cycle Costs. RCM = Reliability Centered Maintenance

