

AL Safety Design

PA/QA Management

AL Safety Design Ltd

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

The services include:

- Product Assurance,
- Reliability Engineering
- 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 and Quality standards.

Reliability, Safety and Product Assurance Services

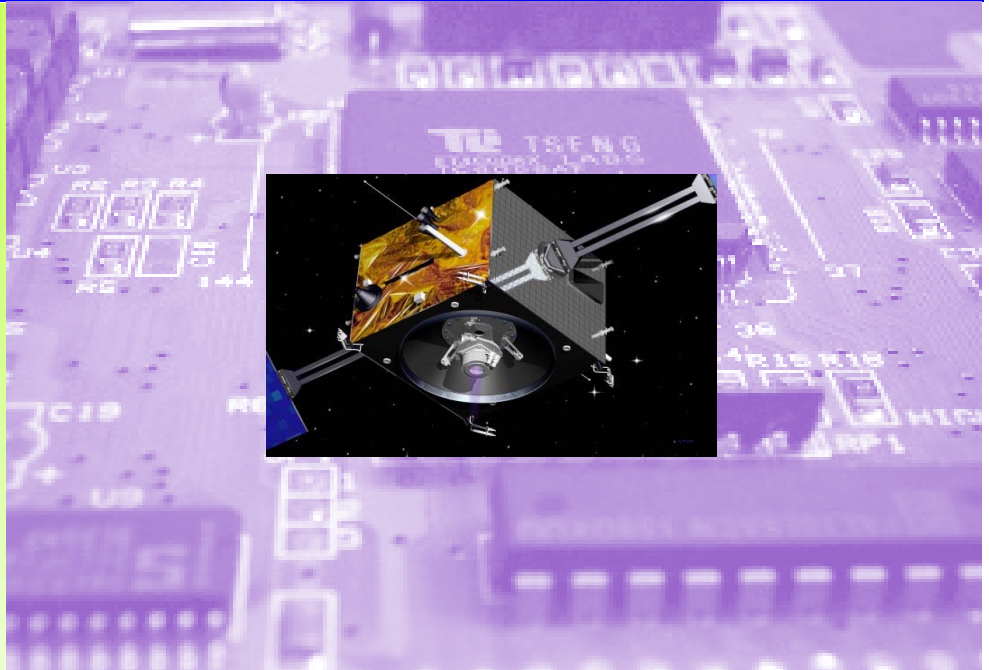
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AL Safety Design Ltd offers:

- **Product Assurance (PA) Documentation**
- **PA consultancy in design projects**
- **PA and Reliability Engineering training courses**

Product Assurance (PA) management is conducted as described in a Product Assurance Plan. It includes Quality Assurance, Reliability and Safety Management. In space technology projects the requirements for the PA activities are described in the ESA-ECSS Standards. Our consulting services include:

- PA/QA and reliability management and documentation in a project
- Risk analysis, product safety assurance
- Reliability engineering activities in product development
- Component procurement services (e.g. space quality components)
- FMECA, Reliability analyses, MTBF-calculations, modeling
- SW failure analysis, Hardware-software interactions analysis
- Reliability test plans for equipment and components
- Failure and reliability data collection systems

Company specific training courses are also available, based on many years experience of in various industries. See www.reliabilityacademy.fi .

AL Safety Design's PA Management References, space instruments:
Planck LFI, SMOS, Rosetta Lander, Phoenix Lander, Smart-1, Cassini-Huygens etc.

