

iNTeg-Risk Course I.3 on Life management, maintenance and aging (OSHA)

June 14, 2010

Stuttgart

Haus der Wirtschaft, Room Heilbronn
Willi-Bleicher-Strasse 19, 70174 Stuttgart

Hosted by



Event organized by



Concept of the course

Course Committee

D. Balos, Steinbeis Advanced Risk Technologies GmbH, Germany

J. M. Bareiß, EnBW Kraftwerke AG, Germany

A. Jovanovic, European Virtual Institute for Integrated Risk Management EEIG, Germany

R. Klaas / M. Schenk, DEKRA Industrial GmbH, Germany

Gy. Lenkey, Bay Zoltan Foundation for Applied Research, Hungary

K. Maile, MPA University of Stuttgart, Germany

M. Renner, Bayer Technology Services GmbH, Germany

Contact & Organization

N. Ghavami, Steinbeis Advanced Risk Technologies GmbH, Germany

A. Veres, Steinbeis Advanced Risk Technologies GmbH, Germany

About the course

The course is aimed to provide an opportunity to explore the risk in day-to-day operation of industrial plants, power and petrochemical plants in particular. In the daily practice risk appears on two main levels:

- As a part of a safety, reliability and availability problems (e.g. the components failing due to aging or other problems) and
- As an opportunity to optimize management of the plants focussing on critical issues and saving resources in non-critical areas.

When dealing with both issues, much of the practice is already well defined and even covered by normative documents, regulation, standards or agreed guidelines. But new risks, unaccounted for in these documents, appear.

- Extending the plant life beyond the design limits
- Changing operation patterns
- Introducing new technologies when refurbishing old plants

appear regularly as sources of new risks and "surprises" for virtually all stakeholders – not only operators, but also regulators, inspectors, consultants.

The course will address these issues for the two abovementioned type of plants (power and petrochemical) and look at the risks related to:

- Material lifetime assessment & Component inspection
- Component/Plant maintenance & Asset management

Issues specific for iNTeg-Risk, such as

- Integrated management of risks, also by means of integrated tools,
- Identification and treatment of emerging risks and
- Use of KPIs (Key Performance Indicators)

will be tackled in the context of performance-oriented and efficient operation. The target audience are primarily engineers and all other professionals involved and/or interested in safe and reliable operation of industrial plants.

Agenda

14:00 – 14:15 Opening

14:15 – 15:45 Session I – Risk-based concepts in inspection & maintenance

1. Application of RCM methodology in petro-chemical industry (Gy. Lenkey, BZF)
2. Risk-based inspection in power plants (J. Bareiß, EnBW)
3. Risk-based maintenance for inspection optimization for water steam boilers (M. Schenk, Dekra)

15:45 – 16:00 Break

16:00 – 17:30 Session II – Risk-based concepts in life management / aging

1. Concepts for power plants (K. Maile, MPA)
2. Tools for integrated life management of industrial plants (D. Balos, R-Tech & Jovanovic, A., EU-VRI)
3. A European Campaign on Safe Maintenance (O. Salvi, EU-VRI on behalf of K. Sas, EU-OSHA)
4. Examples & Discussion

17:30 End of the workshop