

Process Safety

HCRQ announces that it has expanded its offerings in Process Safety addressing the oil, gas and chemical industries.

Speaking of Fault Trees

In the previous issue, we asked:

A fault tree is composed mostly of faults. True or false?

Answer: No. Fault trees are composed mostly of failures.

Speaking of SILs and DALs

In the previous issue, we asked:

Does SIL4 = DAL A?

Answer: No. The criteria used to establish SILs and DALs are different as are the measures to be adopted.

Webinar Discount

2 weeks ago we announced this offer which expires April 30.

Visit our home page for details.

System Safety Course Williamsburg, Virginia

Date: July 8-12, 2013
Venue: Embassy Suites Hotel

For further details, check our web site.

Speaking of SAE ARP4761

In the previous issue, we asked:

What is the difference between:

Failure Condition
and
Hazard?

Answer: They are essentially the same thing. We say "essentially" since there is one failure condition classification which is "no safety effect". But put aside your FHA and pick up a PHA—do we not occasionally postulate hazards during the PHA process which later are determined not to be hazards?

Things We Have Heard Along the Way

- I thought this wasn't supposed to hurt (cancer therapy patient)
- I have so many projects that I only have time to attend meetings leaving me no time to for analysis (software safety engineer)
- We have an SRS, which is not current, and not much of an SDD. We code is complete however. How do we analyze the safety of the software? (application - weapons control)

Explosion Hazards and Safety Research

Please see the attached.

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High speed video image taken during a controlled steam explosion from a hot water tank incorrectly fitted in a small boat.

Specialists in Detonation and Explosion Hazard Research

Have you have identified a potentially hazardous situation and are unsure how to proceed towards a safe solution?

Aber Shock And Detonation Research Limited is a research-driven organisation established to provide specialised support to chemical, process and related sectors. The company offers scientific and technical assistance to organizations that wish to assess or mitigate potentially hazardous combustion or explosion phenomena. It not only has particular expertise in studies involving gas phase detonation, including their use as analogues for military solid explosives, but also has considerable experience developing solutions to help our clients understand and address a wide range of other explosion-related safety problems.

Please submit your initial queries or concerns to our consultancy office:

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Full scale testing of a chemical reactor to establish its mechanical integrity during an internal explosion

All queries are treated in strictest confidence.