ISO/IEC 17305

IEC 62061 e ISO 13849-1 Unificazione in ISO/IEC 17305

ISO/IEC 17305
Safety of machinery – Safety functions of control systems

The new standard committee under French chairmanship

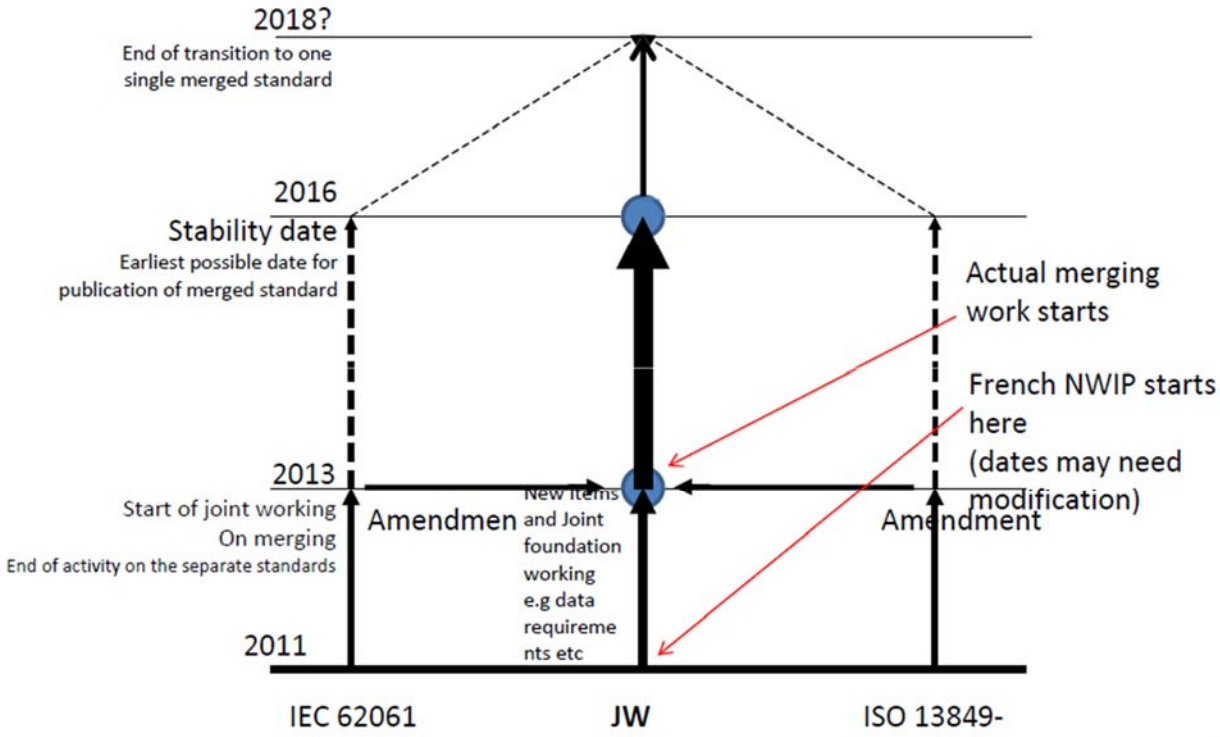
Objectives of ISO/IEC 17305
Based on the feedback gathered from approximately five years, this proposal aims at merging:

- ISO 13849-1 Safety of machinery – Safety-related parts of control systems – Part 1: General principles for design and
- IEC 62061 Safety of machinery – Functional safety of safety-related electrical, electronic and programmable electronic control systems.

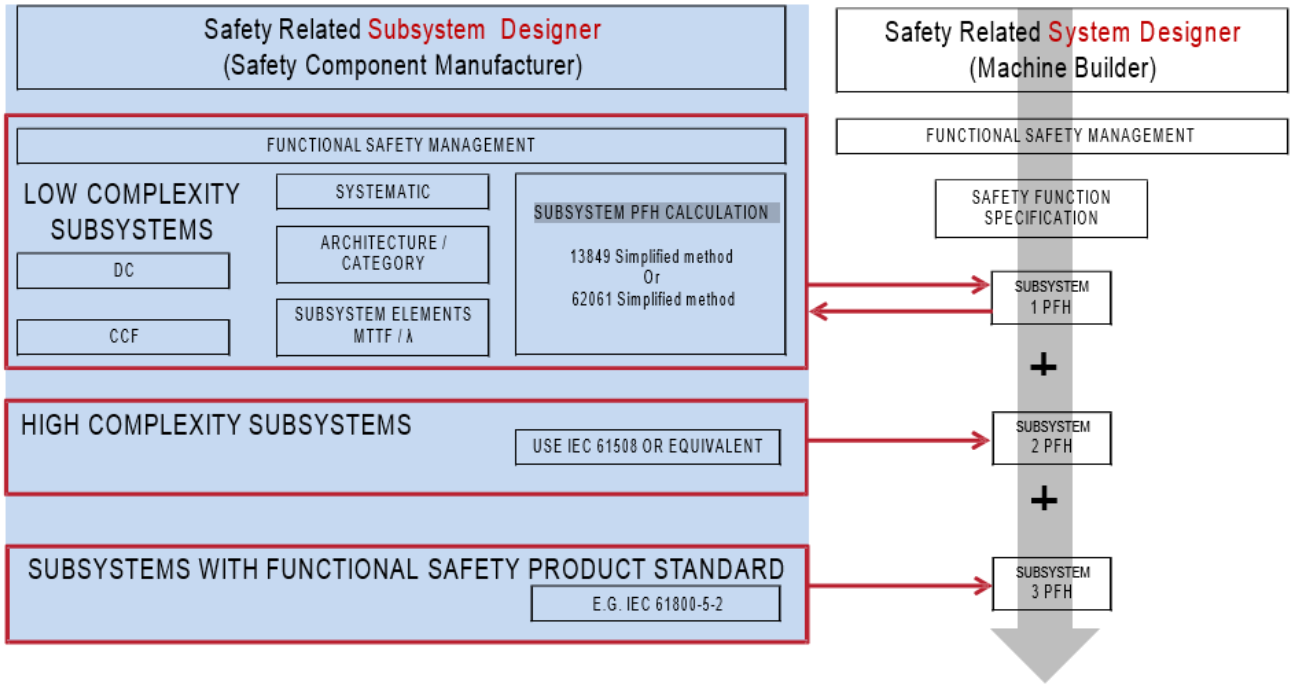
It is based on the following principles:

- No alteration of the methodology or of the basic approach introduced by both standards
- Deletion of overlaps
- Simplification of the use
- Introduction of additions stemming from the feedback

Process Preview



Fonte: Rockwell Automation



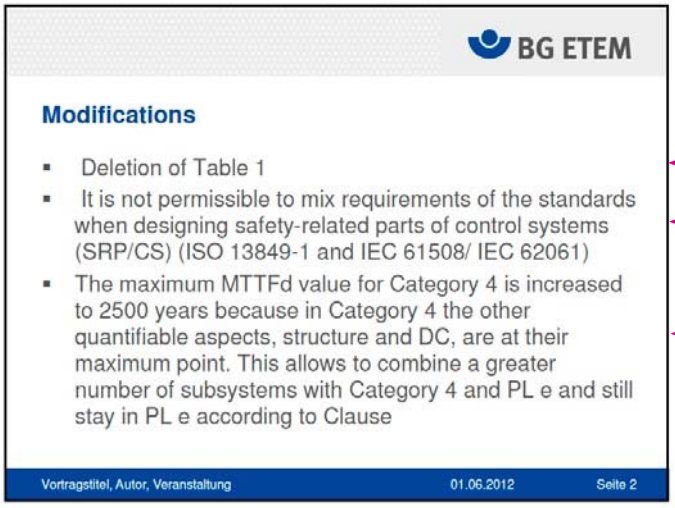
Fonte: Rockwell Automation

Current status

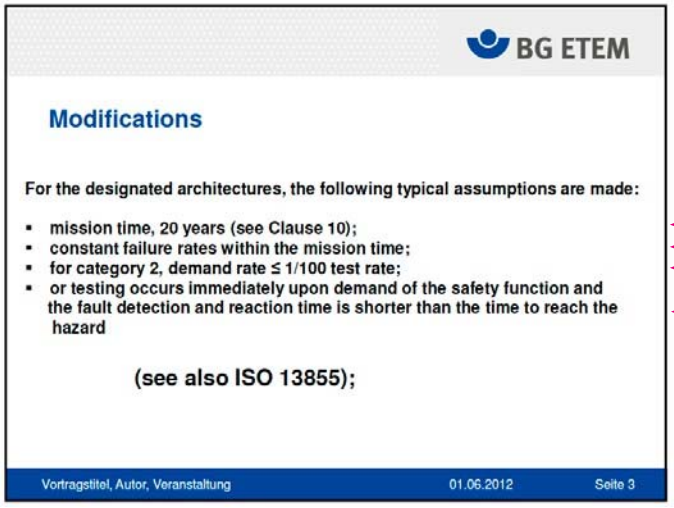
Fonte:
K.A. SCHMERSAL Holding GmbH & Co. & BG ETEM

It is also worth keeping an eye here on the development of an amendment to EN ISO 13849-1 that is currently in progress and is intended to iron out any contradictions in the standard and to facilitate more flexible use.

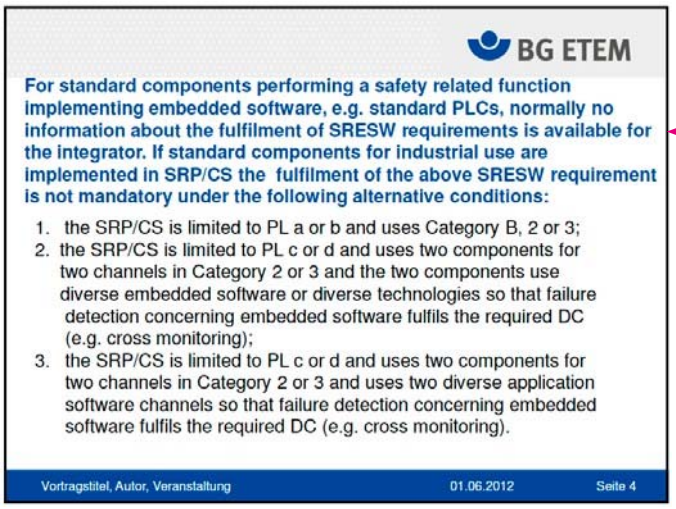
The following slides were shown by the **engineer Klaus-Dieter Becker**, from the Employer's Liability Insurance Association for Energy, Textiles, Electrical and Media products (**BG ETEM**), print and paper processing industry, during the trade congress "Control of print and paper processing machines" in June 2012 in Bernried. They give an overview of the current status of considerations (warning: DRAFT! – please do not take at face value!):



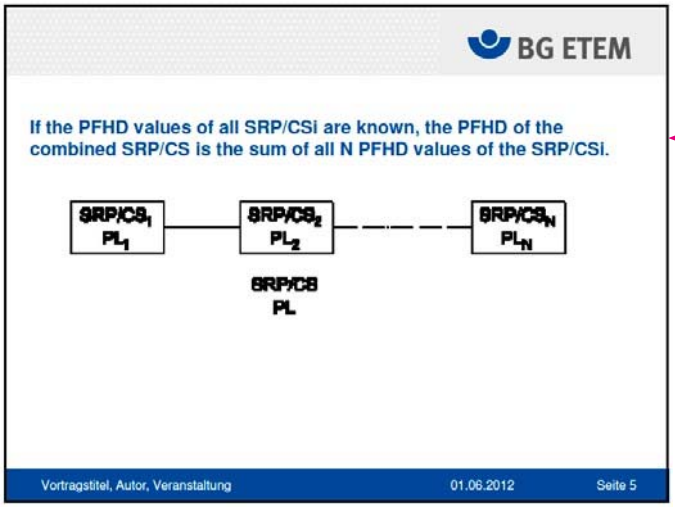
As an aid to understanding:
This concerns the table "Recommended application of IEC 62061 und ISO 13 849-1" which was actually obsolete from the start.
- Needs no further explanation. No "cherry picking"!
- Special question. No further remarks.



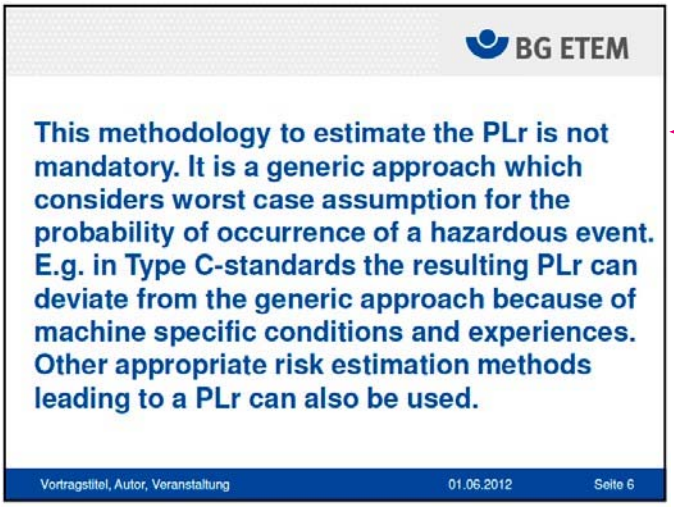
As an aid to understanding:
As far as we know, nothing actually new; however it may help to clarify uncertainties.
New possibilities for realising control category 2, in particular with traditional technologies (fluidics, electromechanics).



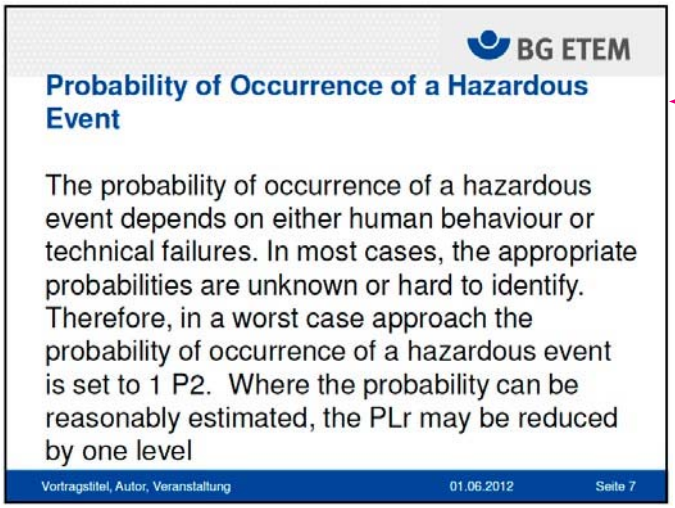
As an aid to understanding:
Applies to necessary clarifications when using programming electronics under normal operating conditions, and in particular standard PLCs.



As an aid to understanding:
As far as we know, nothing actually new; however it may help to clarify uncertainties.

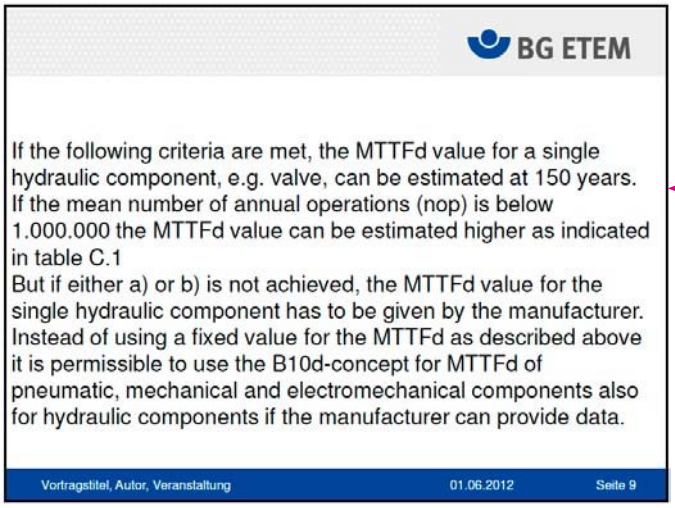


As an aid to understanding:
In our opinion important clarification on the informative character of the risk graph in the informative Annex A of EN ISO 13 849-1.

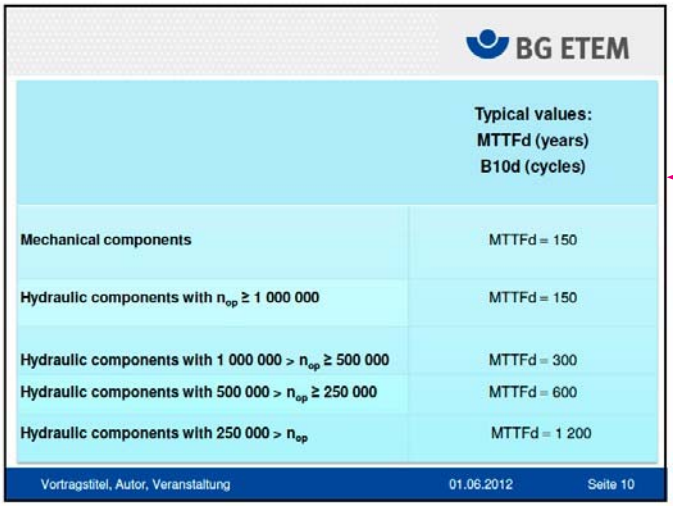


As an aid to understanding:
Explanation of why the otherwise commonly used parameter "probability of occurrence of a hazardous event" is not present in the risk graph for EN ISO 13 849-1; in future this parameter will be available under certain conditions.

As an aid to understanding:
"1st class burial" of the discussion on overlapping hazards.



As an aid to understanding:
New options when using fluidic technology in SRP/CSs.



As an aid to understanding:
New options when using hydraulic technology in SRP/CSs

This is one of the subjects we will cover in detail during the tecnicum seminar K1/12 on 30.08 and 20.11.2012 in Wuppertal and on 25.09 and 22.11.2012 in Maulbronn/Sternenfels.