



# **IEC/SC45A**

## **International standards for I&C used in nuclear facilities**

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OECD/MDEP Conference  
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# Who are we (1/2) ...

- One of the oldest international standard body (1906) : 81 countries members, In the world: 80% population, 95% electrical energy, 50% trade
- Electrotechnology domain covered by 175 Technical Committees and Sub-Committees
- IEC at International level
  - ISO/ITU/IEC sister organizations
  - WTO, TBT agreement recognising ISO/IEC standards
  - IEC/IAEA collaboration agreement
  - IEC/CENELEC collaboration agreement
  - IEC/IEEE collaboration agreement
  - Collaboration with OECD (MDEP project)

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# Who are we (2/2) ...

- IEC/TC45 (Nuclear Instrumentation) and its two SCs : 45A (I&C of nuclear facilities) and 45B (Radiation monitoring instrumentation)
- IEC/SC45A (Instrumentation and control of nuclear facilities)
  - 150 experts from the 20 major nuclear supporting countries
  - 7 active Working Groups
  - Standard portfolio of 65 standards continuously maintained



# How do we work ...

- Transparent, traceable, consensus based
  - 3 stages of approval and 4 stages for comment
- All the actors represented in the technical debate (SAs, operators, vendors)
- National Committees vote and comment
- 4 years in average to develop a standard
- For more information on those general aspects go to <http://www.iec.ch>



# Many successful collaborations going on with objectives of requirements harmonization ...

- IEC/SC45A implement technically IAEA safety principles for I&C in detail in industrial standards using IAEA safety glossary
- 12 IEC/SC45A standards are already endorsed without modification in Europe and published as national standards in 31 European countries
- 8 IEC/IEEE standards are currently developed in collaboration with IEEE/NPEC
- Invitation of the IEC/SC45A to the OECD/MDEP/DICWG meetings, integration of 13 IEC/SC45A standards in the MDEP library for consideration