



Nuclear Safety: First priority for OECD/NEA

Luis E. Echávarri Director-General

Nuclear Safety in Europe: First Regulatory Conference
Brussels, Belgium
28 June 2011





Overview of Presentation

- NEA Framework
- Nuclear Safety and Regulation
- MDEP
- Fukushima Follow-up Activities
- Conclusions





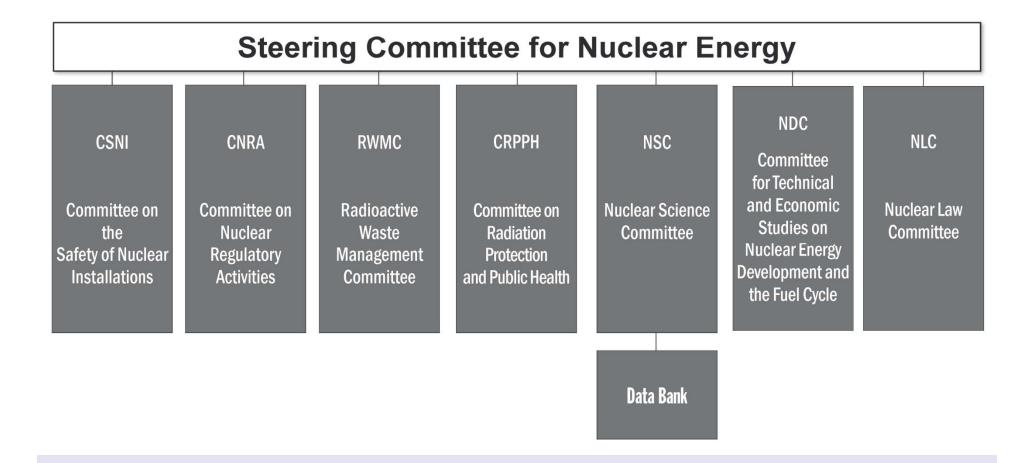
NEA Strengths

- Small size and budget
 - (80 staff members; budget of 14 million euros, + voluntary contributions and projects)
- Large representation (85% of the world's nuclear power capacity)
- ♦ Non-political forum; climate of mutual trust
- Tries to pool world's best nuclear expertise among developed countries
- ♦ Narrow focus: in-depth scientific, technical, legal work
- Interaction among Europe, North America and Asia





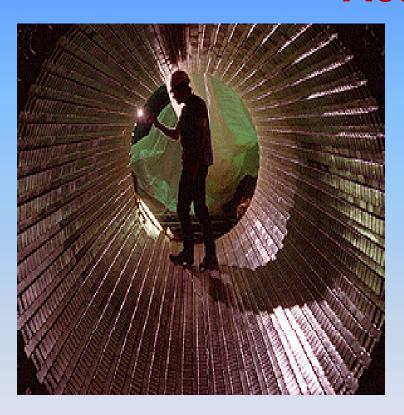
NEA Committees







Committee on Nuclear Regulatory Activities



- Inspection practices
- Operating Experience Feedback
- Incident Reporting System (IRS)
- Public communication of nuclear regulatory organisations.
- Regulation of new reactors
- Senior Task Group on Fukushima follow-up activities

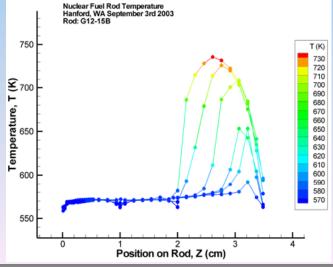




Committee on the Safety of Nuclear Installations



- ✓ Risk assessment
- Analysis and management of accidents
- Integrity of components and structures
 - ✓ Integrity of metal components and structures
 - ✓ Ageing of concrete structures
 - ✓ Seismic behaviour of components and structures
- Human and organisational factors
- Fuel safety
- Fuel cycle safety
- Safety Research projects







OECD-NEA Safety Research Projects





- HALDEN
- CIP
- > SCIP-2
- > SFP
- > LOFC
- PRISME
- ROSA-2
- ▶ PKL-2
- > SETH-2
- > THAI-2
- > BIP
- MCCI-2
- > SERENA

Databases

- Fuel & Materials, I&C, HOF
- Fuel in RIA transients in Cabri
- Fuel integrity
- Fuel hydraulics/ignition phenomena
- Loss of Forced Coolant with HTTR
- Fire safety
- System TH
- PWR SG Heat Transfer
- Containment TH (CFD)
- Containment (HTGR, H2, FP)
- Iodine chemistry
- Severe Accident (Ex-Vessel)
- Steam explosion
- 1. FIRE 2. ICDE 3. CODAP
- 4. COMPSIS 5. CADAK

Norway

France

Sweden

- Japan
- France
- Japan
- Germany
- Swit/Fra
- Germany
- Canada
- USA
- Korea & France

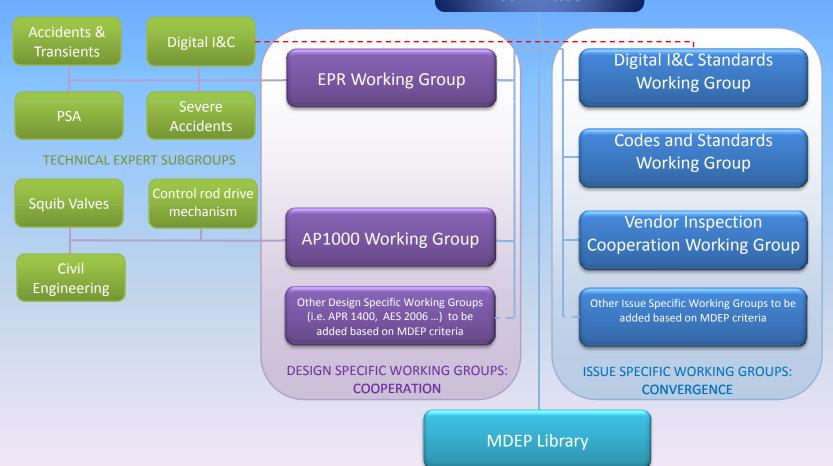




Multinational Design Evaluation Programme

Policy Group

Steering Technical
Committee







Committee on Radiation Protection and Public Health

- Revision of the International Basic Safety Standards (BSS)
- Radiation Protection Issues for Nuclear New Build
- Nuclear Emergency Management (Fukushima follow-up)
- ISOE

Radioactive Waste Management Committee

- Waste Management Strategies
- Development of Geologic Disposal
- Stakeholder Confidence





NEA Forum on Fukushima Daiichi

- Combined with Ministerial Seminar on Nuclear Safety.
 200 participants. June 8th OECD Conference Centre.
- Four sessions:
 - Opening
 - Session on *Insights*. What are we learning?
 - Session on Approaches. What are we doing?
 - Closing: Moving Forward and International Cooperation
- Top regulators from NEA and associated countries.
 Selected industry participation
- Input/feedback to IAEA Ministerial meeting





NEA Fukushima Follow-up Activities

- CNRA established a Senior Task Group to coordinate the response of member countries activities, including exchange of information on national activities and assessing generic implications of the accident.
- All countries with NPPs in operation
 - Identify areas where in-depth evaluation would benefit on an international level
 - Work could be undertaken by existing CNRA or CSNI groups or new groups with specific tasks
 - Identify short-term versus long-term activities
- First meeting 4 6 May 2011





NEA Fukushima Follow-up Activities

- CRPPH Emergency Management Group Meeting (3 - 4 May)
- Topical Session: Fukushima Nuclear Accident
- New activities (International co-ordination of national decisions;
 Urgent counter-measures)
- CRPPH 2011 Annual Meeting (17 19 May)
- Topical Session: The Radiological Consequence and Emergency Management Aspects of the Fukushima Nuclear Accident
- New activities (Impact on national recovery planning; Stakeholders and sustainable recovery)





Concluding Remarks

- First priority for NEA is nuclear safety
- NEA provides the unique opportunity of integrating practices and approaches by regulatory authorities from Europe, North America and Asia
- The regulatory authorities of NEA are committed to continuing to work together internationally and to seek ways for progressing on harmonization of regulatory practices
- The current situation after Fukushima is a unique opportunity to enhance regulatory programmes and requirements for existing and new designs, and to enhance the basis for regulatory decision making