



Canadian Nuclear
Safety Commission

Commission canadienne
de sûreté nucléaire

Review of the Existing Framework of International Arrangements



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Global Nuclear Safety Regime under the IAEA

Binding: International Conventions and Treaties

- ✳ Convention on Nuclear Safety
- ✳ Joint Convention on Waste Management
- ✳ Conventions on Notification and Assistance in Emergency

Political Commitments: Codes of Conduct

- ✳ Safety and Security of Radioactive Sources, Research Reactors

Voluntary: Standards and Peer Reviews

- ✳ IAEA Safety Standards
- ✳ International Peer Reviews: IRRS, TRANSACC, OSARTs
- ✳ World Association of Nuclear Operators (WANO) Independent external monitoring of safety performance

Solid Foundation: Strengthen IAEA Leadership

Challenges

- ❖ Fundamental issues: Independence of regulators
 - Governance as part of improved safety standards and codes of behaviour
 - Independence from Government and promotional influence
 - Resources
 - Authority to take immediate action without consultation
- ❖ Regulatory sovereignty
- ❖ Need ongoing review of national safety programs
- ❖ Disclosure of IRRS schedules, findings and action plans

Remember the renaissance?

Strengthening Review Process

- ❖ Need more transparency and disclosure of IRRS findings
 - Publish schedule of IRRS Missions
 - Publish results and follow-up
 - Publish list of countries not signed up / refusing
 - ❖ Need to have mandatory self-assessment; followed by IRRS mission and a follow-up mission
 - ❖ Need for mandatory follow-up missions to ensure implementation of suggestions and recommendations
 - ❖ Regional cooperation – Best practice benchmark
- On IAEA website
 - Not buried in password protected websites
 - With News Releases

Need Increased Transparency in Peer Reviews

Formulating Positions

- ❖ Role of the IAEA: Whistleblower on nuclear safety?
- ❖ Enforcement of standards / Real peer review
- ❖ Importance of Codes of Conduct and Behaviour:
 - Governance: independence of the regulator
- ❖ Consistent and transparent stress tests with objective and technology neutral approach to lessons learned
- ❖ No commercial competition on basis of nuclear safety
- ❖ Impacts are no longer isolated to a single state or country –
An accident anywhere is an accident everywhere

Important in Determining Path Forward

Moving Forward Post-Fukushima

- ❖ Public sentiment toward nuclear – more negative
- ❖ Will affect decision-makers
- ❖ Stress tests for all?
- ❖ Stronger international mandatory regulation?

***Uphill Battle in Face of
Waning Public Confidence***

Avenues to Enhance Safety

It is time for concrete actions out of IAEA Ministerial Conference

- ✿ Safety standards include governance and independence
- ✿ Leadership / whistleblower role for IAEA and transparency in peer reviews
- ✿ Recognition of important role of INPO and WANO esp in exposing “non responding” operators

Convention on Nuclear Safety

- ✿ fifth review meeting in April 2011
- ✿ extraordinary meeting in August 2012
- ✿ amendment to enhance or strengthen certain obligations (i.e. to ensure the reporting of IRRS, ISR and OSART mission findings)

***Extraordinary Meeting of CNS
Opportunity to Make Political Commitment***

Desired Outcomes

- ❖ IAEA-structured action plan
- ❖ Universal Ratification Of Relevant Conventions
- ❖ Identification Of Measures To Reinforce The CNS
- ❖ Review Safety Standards Post-fukushima (Seismic, Flooding)
- ❖ Identification Of Other Conventions That May Require Strengthening (I.E. Early Notification And Assistance)
- ❖ Strengthen Collaboration With Industry Reviews And Results
- ❖ Make Political Commitments To Conduct Self-assessment And Follow-up On Results
- ❖ Improve Transparency Of Peer Reviews For Early Warning

***Roadmap from Conference to
Strengthen Nuclear Safety***



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