The 2nd IAEA International TSO Conference: Keynote Panel

Challenges in enhancing the global nuclear safety and nuclear security framework. How can technical and scientific support contribute ?

Keynote Panel

The 2nd International Conference on the Challenges Faced by TSOs in Enhancing Nuclear Safety and Security

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My points of discussion are:

1. Maintenance and enhancement of TSO competence
2. Cooperation among TSOs in the Global Nuclear Safety & Security Framework
3. Effective support for new nuclear power countries

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1. Maintenance and enhancement of TSO competence (1/3)

① Prerequisites for obtaining resources:

- High quality, neutral and effective state-of-the-art technical services for regulatory bodies

② Some key words for maintaining technical expertise:

- Effective use of research activities
- Sensitivity to technological development
- Far-sighted and preemptive approach to future issues
- Materialization of tacit knowledge including that of retiring experts

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continued (2/3)

③ Ensuring of necessary resources:

- Financial support by governments backed up excellent performance and public confidence
- Well-considered mid-term rolling plans for optimizing the balance and priority of required support services, and budget for them
- Long term recruiting and human resource development plan, flexible stuffing scheme and appealing career program

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continued (3/3)

- Cooperation with academic societies for professional knowledge and for recruiting young staff
- Proper outsourcing
- Effective use of domestic and international cooperation and collaboration for resource saving

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2. Cooperation among TSOs in the Global Nuclear S&S Framework

① Cooperation is indispensable for:

- Extensive sharing of information and experience (mutual learning)
- Exchange of views on common issues
- Aggregation of knowledge to address current and emerging safety issues
- Collaborative studies for the best use of available resources
- Cooperative approach to capacity building in new nuclear power countries

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Continued

② Possible modes of cooperation:

- New cooperation platform (e.g. TSO forum)
- Use of existing frameworks like ETOSN
- Using proper platform or framework
  - Human interaction/exchange
  - Workshops on special issues
  - Benchmark studies
  - Organization of review/assessment teams
  - Cyber networking
  - Development of technical tools
  - Intermediate meetings between TSO conferences

3. Effective support for new nuclear power countries (1/3)

① Prerequisites:

- Establishment of own national capacity building plans/strategies (descriptions in the NSC National Reports)
- Clarification and prioritization (scheduling) of support needs using forerunners' advice and guidance
- Avoidance of unnecessary duplication
- Dissemination effort in recipient countries

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continued (2/3)

② Support organization:

- Coordinated cooperative support by regulatory bodies, TSOs and international organizations for fundamental issues (with clear role allocation)
- Independence of commercial activities
- Total coordination by the IAEA

continued (3/3)

③ Some special considerations:

- Technology transfer with technical background (e.g. many trouble experiences behind designs)
- International pool of analysis/evaluation codes
- Effective use of international documents
- Use of advanced IT tools (e.g. e-learning and cloud computing)

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Thank you very much