

# **International Conference on Challenges Faced by Technical and Scientific Support Organizations (TSOs) in Enhancing Nuclear Safety and Security - IAEA CN-214**

**Monday, October 27, 2014 - Friday, October 31, 2014**

## **Scientific Program**

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**Objectives**

The objectives of this conference are to assess and review ways to further improve the effectiveness of TSOs taking into account lessons learned from the Fukushima Daiichi nuclear accident. In particular, the conference will:

- Discuss the role of research and development in enhancing nuclear safety;
- Help participants to understand the impact of the Fukushima Daiichi accident on TSOs and to extract lessons to be learned;
- Highlight the role of TSOs in the implementation of the IAEA Action Plan on Nuclear Safety;
- Provide a forum for discussion of the roles, functions and value of TSOs in enhancing nuclear and radiation safety and nuclear security, including through capacity building in those countries launching or expanding their nuclear power programmes;
- Facilitate the exchange of experience and good practices in planning and implementing cooperative activities for capacity building and in identifying needs for assistance activities from the standpoint of recipient countries;
- Consider appropriate approaches for enhancing cooperation and effective networking among TSOs and beyond, including centres of excellence;
- Provide an overview of the technical and scientific support needed for maintaining a sustainable nuclear safety and security system; and
- Foster continued dialogue on all relevant technical, scientific, organizational and legal aspects at the international level.

**Target audience**

The conference is directed at a broad range of experts in the areas of nuclear safety and security, and aims to bring together the world's senior representatives from TSOs, regulatory bodies, industry/operators, research organizations and other relevant stakeholders.</div>

## **Opening Session**

# **The role of TSOs in Relation to the Fukushima Daiichi Accident**

- National and international experiences
- Revision of national safety requirements
- Response to the IAEA Action Plan on Nuclear Safety by Member States
- Root cause investigations and simulations
- Fukushima research

## **Interface Issues**

- Meeting the challenges of the safety–security interface
- Public communication and awareness
- Interface issues with the regulators
- Interface issues with licensees and industry

## **Emergency Preparedness and Response**

- National role of a TSO during an emergency
- Assessment and prognosis during an emergency (short, medium and long term)
- Emergency worker protection (on- and off-site)
- Training and exercises for emergency conditions (on- and off-site)
- Medical emergency preparedness and response

## **Maintaining and Strengthening TSO Capabilities**

- Human and organizational factors
- Knowledge management
- Training and tutoring
- Research and development activities
- Safety and security cultures

## **Networking among TSOs and Beyond**

- Contribution of IAEA to effective networking
- Progress made since the last conference
- TSOs in a small or a newcomer country
- TSOs' support to strengthen newcomer countries
- Sharing of experiences and practices
- Regional networks