The Role of TSOs in the Global Nuclear Safety Regime (GNSR)

Department of Nuclear Safety and Security

P. Jamet, Director NSNI
Structure

- Role of TSOs in national regulatory systems
- Importance of TSOs in the Global Nuclear Safety Regime (GNSR)
- Challenges for TSOs
- IAEA activities related to TSOs
• Regulatory decisions rely on technical and scientific basis
• Regulators always need support in some areas from external technical and scientific organizations/experts = TSO
Role of TSOs in national regulatory systems (2)

• Areas for possible technical support:
  • Safety assessment
  • Operational Experience Feedback
  • Emergency Preparedness and Response
  • Safety Studies
  • Safety Research
  • Dosimetry, field measurements, testing and calibrations
• Nature and extent of support provided by TSO is a national choice:

• US: NRC has extensive internal capabilities

• FRANCE: Institutional separation between Regulator (ASN) and Expert (IRSN)
• Whatever support:

REGULATORY DECISION REMAINS SOLE RESPONSIBILITY OF REGULATOR

• TSO can provide support to entities other than national regulator, but:

CONFLICT OF INTEREST MUST BE AVOIDED
Global Nuclear Safety Regime

International Legal Instruments
Conventions and Codes of Conduct

IAEA Safety Standards

IAEA Safety Reviews and Services

Global Knowledge Network

Global Experts’ Community

National and Regional Nuclear Safety Infrastructure

Regulation

Operation

Research & Education
Importance of TSOs in the GNSR

- Depository of technical and scientific knowledge
- Identifying and addressing safety research needs and creating new knowledge
- Identifying and addressing education and training needs
Challenges for TSOs

• New technologies requiring new knowledge
• Increased competition
• Tendency to reduce resources devoted to safety research
• Standardization of requirements and safety evaluation
• Technical support to countries embarking on nuclear power
IAEA activities related to TSOs

• First conference on technical and scientific support in Aix-en-Provence in 2007

• Development of a safety guide on “technical and scientific support for the regulatory body”

• Promoting a TSO network as part of the Global Nuclear Safety Network (GNSN)