
USNRC Regulatory Information Conference
9 March 2010


International Coordination with Countries Pursuing New Nuclear Power

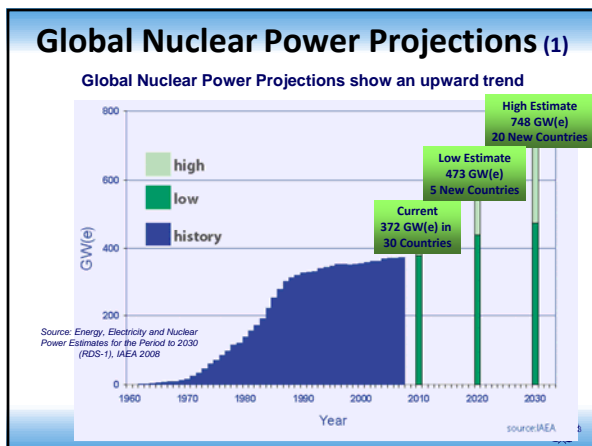
Dr. Khammar Mrabit
Head, Safety and Security Coordination Section
Department of Nuclear Safety & Security
International Atomic Energy Agency

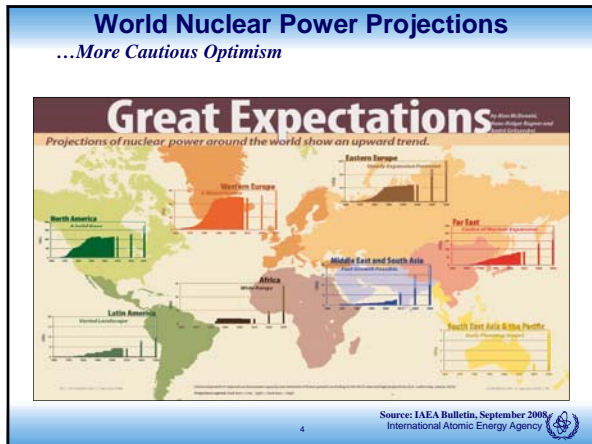
1

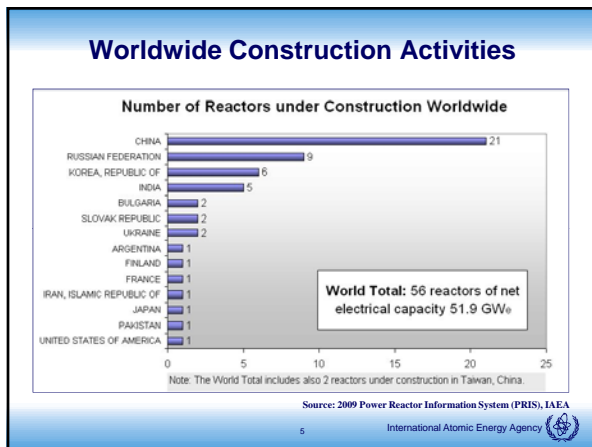
Agenda

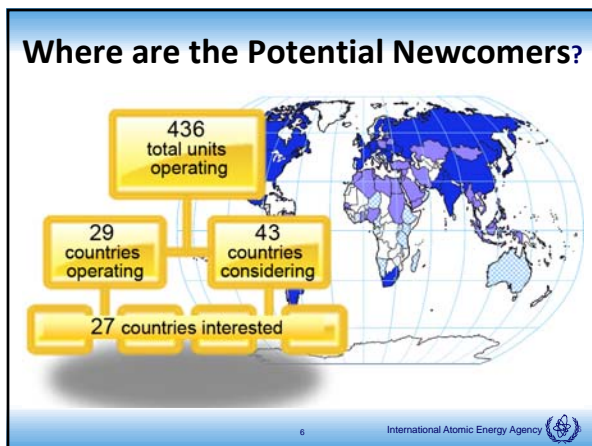
- **Global Context**
 - Global Nuclear Power Projections
 - Where are the Potential New Entrants?
 - Multinational and Global Nuclear Dimensions
- **Regulatory Programme Development**
 - National Infrastructure Development
 - Achieving Regulatory Effectiveness
 - Safety and Security Synergies & Integration
- **International Cooperation**
 - Global Nuclear Safety and Security Regime
 - IAEA Support Programmes for Capacity Building
 - IAEA Support Programmes
- **Conclusions**

2 International Atomic Energy Agency 









Multinational and Global Nuclear Dimensions

- National expectations and realities versus
- impacts of global supply chain
- multi-cultural environments



Urgent need of coordination and collaboration among governments, regulators, TSO, industry, and international organizations

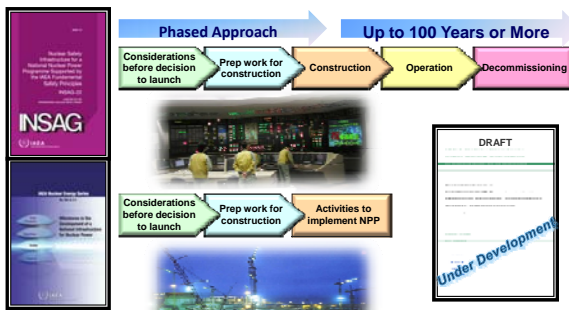
7

Regulatory Programme Development



8

National Infrastructure Development (1)




9

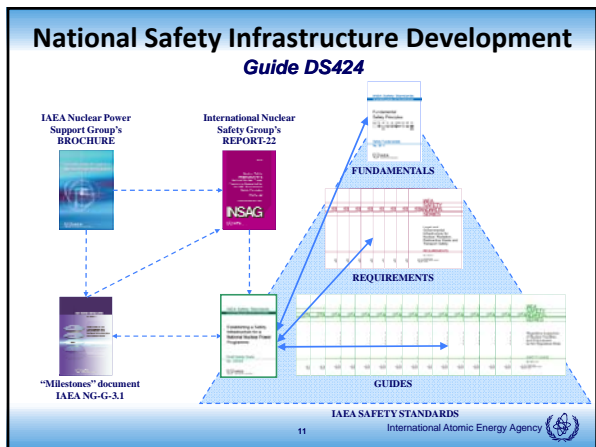
National Infrastructure Development (2)

Key Infrastructure Issues

- National position
- ✓ Nuclear safety
- Management
- Funding and financing
- ✓ Legislative framework
- Safeguards
- ✓ Regulatory framework
- ✓ Radiation protection
- Electrical grid
- ✓ Human resources development
- Stakeholder involvement
- Site and supporting facilities
- Environmental protection
- ✓ Emergency planning
- ✓ Security and physical protection
- ✓ Nuclear fuel cycle
- ✓ Radioactive waste
- Industrial involvement
- Procurement

All issues affect safety to some extent






Safety Infrastructure Guide DS424

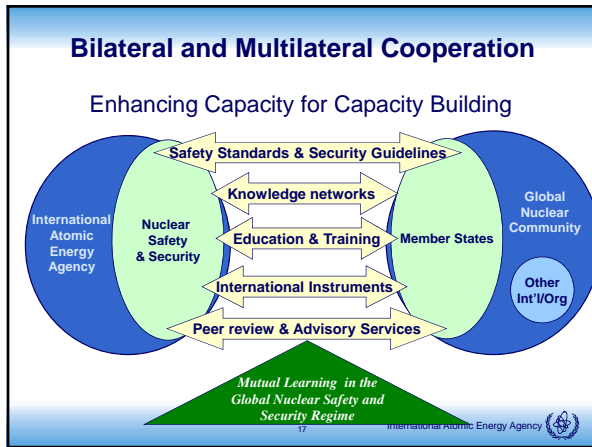
The Safety Infrastructure Guide (DS424) is structured in accordance with the IAEA Safety Requirements.

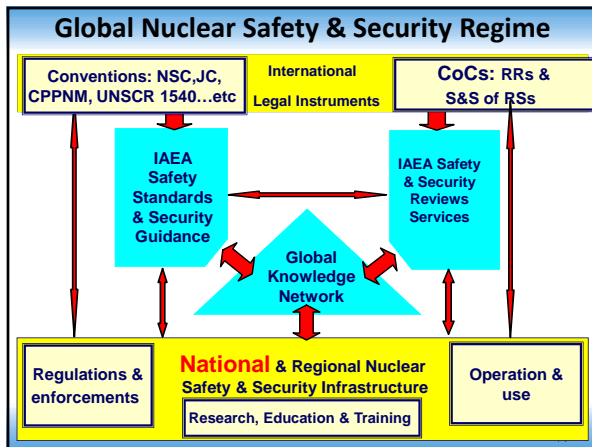
Primarily used to help establish and continuously improve newcomers' Safety Infrastructure and Capacity Building.

Facilitating international coordination and collaboration for building nuclear safety infrastructure.











IAEA Support Programmes (1)


Mechanisms

- Education
- Training
- Workshops
- Expert advice
- Conferences & Symposia
- Peer Reviews
- Knowledge Networks
- ...etc.

19 International Atomic Energy Agency 

IAEA Support Programmes (2)

- Peer review and advisory services
 - Integrated Regulatory Review Service (IRRS)
 - Operational Safety Assessment Review Teams (OSART)
 - International Physical Protection Advisory Service (IPPAS)
- Global and regional knowledge sharing networks
 - International Regulators Network
 - Global Nuclear Safety Network
 -  
- Other thematic networks

20 International Atomic Energy Agency 

IAEA Support Programmes (3)

Themes

- Legal and regulatory infrastructure
- Siting & evaluation reviews
- Construction, commissioning and quality assurance
- Operations
- Security
- Emergency preparedness and response
- Licensing
- Decommissioning and radioactive waste management
- ...etc

21 International Atomic Energy Agency 

IAEA Support Programmes (4)

Regulatory Coordination Forum (RCF)

- Recognized that multinational initiatives for international cooperation among Regulators can significantly improve effectiveness, efficiency and harmonization of regulatory approaches and capacity building to support a nuclear power programme
- Regulatory Coordination Forum (RCF) to support newcomers is being established – Kick off meeting for a Core Group meeting is scheduled for June, 2010



International Atomic Energy Agency 

Conclusions (1)

Commitment

- ✓ Nuclear power programmes last a lifetime (+/- 100 years)

Responsibility

- ✓ Newcomers must build their own capacity for capacity building - National Safety and Security Cannot entirely be outsourced

Sharing

- ✓ Wealth of international knowledge and experience

International Atomic Energy Agency 

Conclusions (2)

International Cooperation

- ✓ International community to work together to enhance International coordination and collaboration for capacity building and safety infrastructure for safe and secure introduction and expansion of nuclear power
- ✓ IAEA serves as the hub, supporting member states to build and continuously improve their capacity and infrastructure within the Global Nuclear Safety and Security Regime

International Atomic Energy Agency 

...Thank you for your attention

K.mrabit@iaea.org



25

International Atomic Energy Agency 
