International Safeguards Challenges and Issues

Kenji Murakami

Former Director of Safeguards Operations, IAEA Visiting Professor, Tokyo City University Visiting Researcher, JAEA

International Safeguards – Challenges

- IAEA Safeguards have evolved through various events and enhanced its activities over the years.
- More challenges and heavy workload are expected to come in a future.
- There is a continuing need to strengthen its ability to provide credible assurance in global nuclear non-proliferation.

Challenges and Issues

- 1. Global nuclear renaissance and increasing workload
- 2. Safeguarding innovative fuel cycle facilities and technological development
- 3. Global proliferation risk and proliferation network
- 4. Maintaining adequate and sufficient legal authority
- 5. Possible new verification roles and missions
- 6. Improve effectiveness and efficiency of verification capabilities and operations
- 7. Effective resource development and management

1. Global nuclear renaissance and increasing workload

- Growing number of facilities and quantities of nuclear material
- Ensuring reliable SSAC and nonproliferation compliance in new coming states
- Verifying decommissioning facilities and long term storages

2. Safeguarding innovative fuel cycle facilities and technological development

- Develop new and improved safeguards concept and approaches
- Enhance detection capabilities through acquisition of effective verification methodology
- Use of advanced verification technology and Safeguards by design

3. Global proliferation risk and proliferation network

- Effective and efficient verification of undeclared activities
- Enhance information acquisition and analysis capabilities
- Provide credible assurance by early detection of non-compliance

4. Maintaining adequate and sufficient legal authority

- Universal implementation of Safeguards Agreements, APs, and IS
- Fully implement existing legal framework and examine possible expansion of authority
- Safeguarding non-NPT states

5. Possible new verification roles and missions

- Verifying excess fissile materials
- Technical support to FM(C)T
- Respond to request for verification and technical assistance related to disarmament

6. Improve effectiveness and efficiency of verification capabilities and operations

- Enhancing information analysis driven safeguards
- Cooperation with States and SSACs/RSACs
- Applying quality management systems

7. Effective resource development and management

- Securing adequate financial resources
- Develop and implement human capital management strategy
- Maintain effective management team with trained and experienced staff