Experience of IRRS in JAPAN

Senior Regulators’ Meeting
September 20, 2007

Akira Fukushima
Deputy Director-General for Safety Examination
Nuclear and Industrial Safety Agency
Objectives of inviting IRRS

Through peer review and policy dialogues by high-level officials of regulatory authorities from member countries,

• Enhance effectiveness and efficiency of Japan’s nuclear safety regulation.

• Share regulatory experience among senior regulators to contribute to improving nuclear safety regulations internationally.

NISA Nuclear and Industrial Safety Agency
### Scope

- **Facilities:** NPPs
- **Areas:**
  - GS-R-1  7 Modules
  - GS-R-3  1 Module

<table>
<thead>
<tr>
<th>Module</th>
<th>Title</th>
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<tbody>
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<td>I</td>
<td>Legislative and Governmental Responsibilities</td>
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<td>II</td>
<td>Responsibilities and Functions of the Regulatory body</td>
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<td>III</td>
<td>Organization of Regulatory Body</td>
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<td>IV</td>
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<td>VII</td>
<td>Development of Regulations and Guides</td>
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<td>VIII</td>
<td>Management System of Regulatory Body</td>
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</table>

### Facilities and Areas

- **Facilities:** NPPs
- **Areas:**
  - GS-R-1  7 Modules
  - GS-R-3  1 Module

- **Areas:**
  - Transport
  - Mining and Milling
  - Storage facilities
  - Research and Educational Use
  - Nuclear Medicine
  - Radiation Therapy
  - Diagnostic Radiology
  - Accelerators
  - Radioisotope Production
  - Gauges and Well Logging
  - Industrial Irradiators
  - Industrial Radiography
  - Fuel Cycle Facilities
  - Research Reactors
  - Nuclear Power Plants
  - Disposal Facilities
  - Radiation Therapy
  - Nuclear Medicine
  - Research and Educational Use
  - Disposal Facilities
  - Transport
  - Mining and Milling

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**NISA**

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Basic Concept of Japan IRRS

• Focus on Policy Dialogue
  – Peer review by high-level officials of regulatory authorities from member countries and discussion on specific policy issues with them.

• Two-stage implementation
  – Preparatory Meeting focused on the compliance with the IAEA Safety Standards, and Main Meeting on the Policy Dialogue.

• Open and frank discussion
  – Provide ample information to the reviewers in an open and frank manner.
Process

Information Meeting
Statement to invite IRRS at the IAEA General Conference
May, 2006

Preparatory Meeting
Completion of the Self-Assessment
September
February, 2007

Main Meeting
June

Launch of the Self-Assessment Team

NISA Nuclear and Industrial Safety Agency
IRRS Reviewers

Preparatory Meeting (February 2 to 5, 2007)
Mr. Lacoste (Team Leader, France) assisted by Mr. Louet
Mr. Laaksonen (Deputy Team Leader, Finland)
Mr. Caruso (IAEA)
Ms. Nicic (IAEA)

Main Meeting (June 25 to 30, 2007)

Team A (Organizational and institutional matters):
Mr. Lacoste (Team Leader, France) assisted by Mr. Louet
Mr. GRANT (Canada)
Mr. GRAY (UK)
Mr. NA (Republic of Korea)
Mr. Caruso (IAEA)
Ms. KOBEIN (IAEA)

Team B (Technical and practical matters):
Mr. Laaksonen (Deputy Team Leader, Finland)
Mr. EIBENSCHUTZ (Mexico)
Mr. HERTTRICH (Germany)
Mr. LIU (China)
Mr. MALLETT (USA)
Ms. Nicic (IAEA)
## Purpose
- To review self-assessment whether Japan’s regulation is in compliance with the IAEA safety standards
- To select policy dialogue items for the main meeting

<table>
<thead>
<tr>
<th>Division in charge</th>
<th>Japan</th>
<th>IAEA</th>
<th>5 (Mon.)</th>
<th>6 (Tue.)</th>
<th>7 (Wed.)</th>
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<td>A</td>
<td>General Presentation</td>
<td>① Legislative and Governmental Responsibilities</td>
<td>② Responsibilities and functions of the Regulatory Body</td>
<td>③ Organization of the Regulatory Body</td>
<td>Team Meeting</td>
<td>Confirmation of the items to be discussed in the main meeting</td>
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<td>General Presentation</td>
<td>④ Authorization Review and Assessment</td>
<td>⑤ Review and Assessment</td>
<td>⑥ Development of Regulations and Guides</td>
<td>Exit Meeting</td>
<td>Team Meeting</td>
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<tr>
<th>Conference Type</th>
<th>5 (Mon.)</th>
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<tbody>
<tr>
<td>Plenary Session</td>
<td>Meetings by Module (Parallel Sessions)</td>
<td>Review Team Meeting</td>
<td>Plenary Session</td>
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Policy Dialogue Items

1. Institutional matters NISA, NSC, METI, ANRE, JNES,
2. NISA’s personnel,
3. Human & Organizational Factors & Qualitative Items,
4. Operating Experience Feedback,
5. Strategic Planning & Management System,
6. NISA’s Organizational Structure & Inspection System,
7. Transparency & Openness,
8. Internal Communication,
9. Aging Management,
10. Risk Informed Regulation,
11. Authorization of New Plants,
12. Performance-based Regulation,
13. IRRS Methodology.
Main Meeting

**Purpose**
- Policy dialogue to share regulatory experience
- Direct observations & interviews to confirm the review of self-assessment

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<th>25(Mon)</th>
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<th>28(Thu)</th>
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- **A**
  - Module 1, 2, 3
  - Overall presentation

- **B**
  - Module 4, 5, 6, 7
  - Site Area Team
    - Resident Inspectors
    - Licensee
  - Review Team Meeting
  - Deliberation on Japanese Side
  - Plenary Meeting
  - Exit Meeting

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Benefits of Policy Dialogue

- Sufficient concentrated discussion focused on specific policy issues.
- Reflection of experience from high-level officials of regulatory authorities from member countries to our new and challenging policy issues.
- These points are meaningful especially for those countries with adequate experience in nuclear safety regulation.
Proposal as an option for future missions

- Two-stage Review:
  - First Meeting focused on the compliance with the IAEA standards
  - Second Meeting for policy dialogue

- Review team:
  - Organized with experts suitable for the respective purposes of each stage review

- IRRS report:
  - Part 1: compliance (including recommendations, suggestions or good practices)
  - Part 2: summary of policy dialogue