
Experience of IRRS in JAPAN



IRRS Workshop 2008
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Tomoho Yamada



Objectives of inviting IRRS

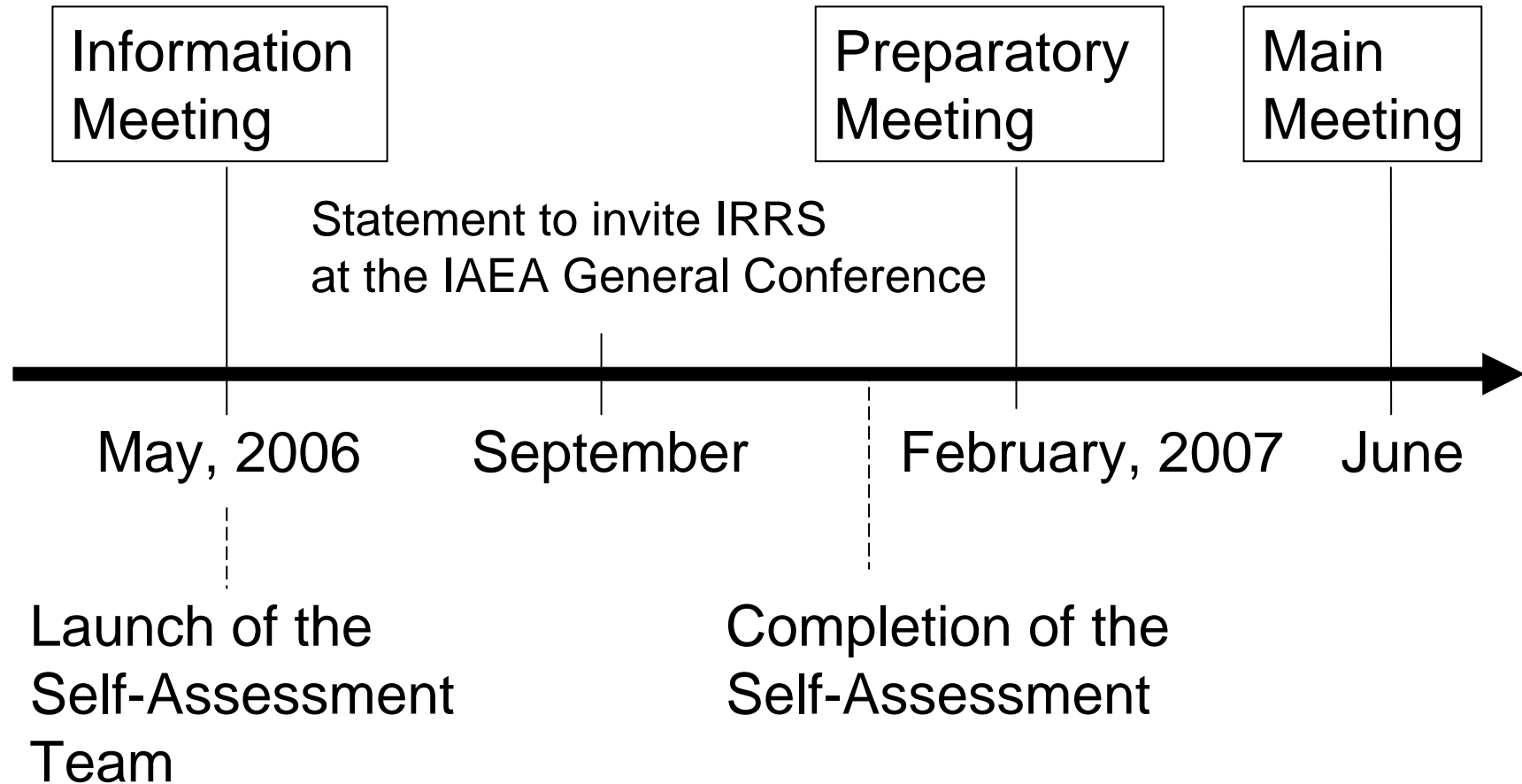
- Enhance effectiveness and efficiency of Japan's nuclear safety regulation
- Share regulatory experience among senior regulators to contribute to improving nuclear safety regulations internationally



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.

Chronology



Scope

Facilities: NPPs

Areas:

- GS-R-1 7 Modules
- GS-R-3 1 Module

	Nuclear Power Plants	Research Reactors	Fuel Cycle Facilities	Industrial Irradiators	Industrial Radiography	Gauges and Well Logging	Radioisotope Production	Accelerators	Diagnostic Radiology	Radiation Therapy	Nuclear Medicine	Research and Educational Use	Radioactive Waste Management	Disposal Facilities	Transport	Mining and Milling
Legislative and Governmental Responsibilities (Module I)																
Responsibilities and Functions of the Regulatory body (Module II)																
Organization of Regulatory Body (Module III)																
Authorization (Module IV)																
Review and Assessment (Module V)																
Inspection and Enforcement (Module VI)																
Development of Regulations and Guides (Module VII)																
Management System of Regulatory Body (Module VIII)																
Specific Requirements																
Thematic Elements																

IRRS Reviewers



Preparatory Meeting (February 5 to 8, 2007)

Mr. Lacoste (Team Leader, France)
assisted by Mr. Louet
Mr. Laaksonen (Deputy Team Leader, Finland)
Mr. Caruso (IAEA)
Ms. Nacic (IAEA)

Main Meeting (June 25 to 30, 2007)

Team A (Organizational and institutional matters):

Mr. Lacoste (Team Leader, France)
Mr. GRANT (Canada)
Mr. GRAY (UK)
Mr. NA (Republic of Korea)
Mr. Louet (France)

Team B (Technical and practical matters):

Mr. Laaksonen (Deputy Team Leader, Finland)
Mr. EIBENSCHUTZ (Mexico)
Mr. HERTTRICH (Germany)
Mr. LIU (China)
Mr. MALLET (USA)

Preparation Stage

- Some national regulatory practices implemented based on historical experiences such as previous events or accidents, indifferent to IAEA Safety Standards can be identified.
- The process to create the self-assessment report and presentation materials to the IRRS reviewers is a good opportunity for self-examining those practices.

Preparatory Meeting

- 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

Japan	IAEA	5 (Mon.)		6 (Tue.)		7 (Wed.)		8 (Thu.)	
		AM	PM	AM	PM	AM	PM	AM	PM
Division in charge	A	General Presentation	① Legislative and Governmental Responsibilities	② Responsibilities and functions of the Regulatory Body	⑧ Management system	③ Organization of the Regulatory Body	Team Meeting	Confirmation of the items to be discussed in the main meeting	
Division in charge	B		⑥ Inspection and Enforcement	④ Authorization ⑤ Review and Assessment	④ Authorization ⑤ Review and Assessment	⑦ Development of Regulations and Guides			
Conference Type		Plenary Session	Meetings by Module (Parallel Sessions)				Review Team Meeting	Plenary Session	

Preparatory Meeting (cont.)

- Sessions by Module
 - General presentation from Japanese side
 - ✓ Outline of the regulatory system with regard to each module
 - ✓ Results of self-assessment (based on the materials including the “Responses to the IRRS Questionnaire” and the “Self-assessment Report”)
 - ✓ Key topics (based on the documents such as the “Materials for Policy Dialogue)
 - Questions and answers
- Plenary Session
 - Identify the issues for the main meeting

Preparatory Meeting (cont.)

- Outcome for the main meeting
 - ✓ 12 regulatory policy issues (and “IRRS Methodology”)
 - ✓ Two working groups
 - One WG from technical aspect, and the other from policy aspect
 - ✓ “Contact with reality”
 - Factual confirmation of the application/execution of regulatory functions through interviews, direct observations and review specific documentation

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

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

	25(Mon)		26(Tue)		27(Wed)		28(Thu)		29(Fri)		30(Sat)		Policy Dialogue Issue	
	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM		
A (Organizational and Institutional matters) Module 1, 2, 3, 8	Overall presentation		1	3	2	7,8	5	Direct Observations and Interviews Site Area Team · Resident Inspectors · Licensee		Review Team Meeting	Deliberation on Japanese Side	Plenary Meeting	Exit Meeting 13	1
			M1	M2	M3	M1,3	M8							2
11			6	9	4	10,12	3							
B (Technical and practical matters) Module 4, 5, 6, 7	Overall presentation		M4	M6	M5	M5	M7	Tokyo Team · NISA · NSC · JNES etc.		Review Team Meeting	Deliberation on Japanese Side	Plenary Meeting	Exit Meeting 13	4
			M4	M6	M5	M5	M7							6
M4			M6	M5	M5	M7	9							
													10	
													11	
													12	

Main Meeting (cont.)

- 12 Policy Dialogue Items were categorized to the corresponding Modules 1 to 8
- Two working groups same as the Preparatory Meeting
- Presentation of the Japanese practices and experiences on each Policy Dialogue Items and discussion with the reviewers



Outcome of the Mission

	Recommendation	Suggestion	Good Practice
Module 1 Legislative and Governmental Responsibilities	1	1	1
Module 2 Responsibilities and Functions of the Regulatory Body		2	3
Module 3 Organization of the Regulatory Body	2	1	1
Module 4 Authorization		4	3
Module 5 Review and Assessment	3	5	4
Module 6 Inspection and Enforcement	2	3	2
Module 7 Regulations and Guides	1	1	1
Module 8 Management System for The Regulatory Body	1	1	2
Total	10	18	17

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 the new and challenging policy issues.
- These points may be meaningful especially for those countries with experience in nuclear safety regulation.

Two Stage Review

- Identify items for policy dialogue which are appropriate and more beneficial to the host country through the first meeting
- Technically detailed discussion at the first meeting and high level discussion at the second meeting may allow to assign competent reviewers to each meeting respectively.

Follow-up and Future Plan

- NISA's follow-up responding to the IRRS findings
All findings (suggestions and recommendations) are assigned to responsible divisions of NISA respectively and action plan was established.
- Follow-up Mission
NISA is preparing to invite follow-up mission in two years.

Conclusion

- The process to prepare for IRRS is a very good opportunity to overview the daily practices and to identify the room for improvements.
- Findings by IRRS review team is beneficial and a good trigger to establish an action plan for improvements.
- IRRS methodology could be customized corresponding to the preference of the host country.