

## Practices and Challenges of Public Engagement in Korea

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### Contents

1. Current Status of NPPs in Korea
2. Public Engagement Initiative
3. National Policy Direction
4. Rules and Implementation in brief
5. Legal Basis - Practices
6. Diversified Channels - Practices
7. Concluding Remarks - Challenges

▶ 2

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### Current Status of NPPs in Korea

#### ▶ NPPs (As of Jan., 2017)

- ▶ In operation : 25 units (23GWe)
  - ▶ 25 reactors provide about one-third of national electricity generation from 23 GWe of plants
  - ▶ Major power generation resources are coal and nuclear
  - ▶ The decommissioning of Kori unit 1 is expected to start after its permanent shutdown in June 2017
- ▶ Under construction : 5 units (7GWe)



▶ 3

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## Public Engagement Initiative

▶ Paradigm Shift of Public Engagement

Information	Participation	Collaboration
Public as the object of persuasion and explanation (Practices)	Public as stakeholders who influence the decision process	Public as partners who work with and decide together (Challenges)
One way communication ; inform, educate, or share	Two way dialogue ; debate, provide feedback	Implement solutions ; advise, recommend

▶ Challenges to Regulators

- ▶ Fukushima accident as a turning point
  - ▶ Role of independent regulators is getting important as the trusted and impartial source of information
- ▶ Openness and transparency as a key trait of trusted regulator
- ▶ Design of process and rationale of public engagement
  - ▶ Who & what should be included and when to include ?

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## National Policy Direction

▶ The Second Comprehensive Nuclear Safety Plan (2017 -2021)

▶ 7 strategies and 21 main tasks

1. Reinforce the safety management of NPPs from normal operation to severe accidents
2. Improve transparency through information releases and other communication means
  - 2-1. Releasing nuclear safety information in an active manner
  - 2-2. Arranging communication opportunities with the public in an active manner
3. Establish a safety management system in relation to the back-end cycle of the nuclear industry
4. Improve the effectiveness of disaster preparation (including earthquakes) and the radioactive emergency response system
5. Advance regulations for nuclear security and reinforce the system for implementing non-proliferation
6. Preemptively manage the safety by responding to environmental changes in radiation use
7. Expand the regulatory infrastructure including R&D, human resources development, and international cooperation

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## Rules and Implementation (in brief)

▶ Transparency as Core Value of NSSC & KINS

- ▶ To leave no doubts throughout the regulatory process
- ▶ Information disclosure and public communication
  - ▶ Major regulatory actions are taken after the deliberation of the Commission
  - ▶ All matters discussed in meetings are open to the public
  - ▶ The public as observers can participate in the meetings
- ▶ Legal basis for Transparency and Openness
  - ▶ Rulemaking of Nuclear Safety Act → Provision of Active Disclosure of Nuclear Safety Information and Gathering of Residents' Opinion
- ▶ Diversified Channels for Communication or Public Engagement Ensuring Transparency and Openness
  - ▶ Nuclear Safety Council, Training Program for Public, Media and SNS

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**Legal Basis**

- ▶ Rulemaking of Nuclear Safety Act
  - ▶ Nuclear Safety Act (Article 103)
    - ▶ Article for Gathering of Residents' Opinion
    - ▶ Applicant compiling a RER
      - ▶ A person who intends to obtain a permit or approval of CP, OL, CO, or RWM facilities
    - ▶ Applicant preparing a decommissioning plan
      - ▶ A person who intends to obtain approval of decommissioning of reactors and facilities
    - ▶ Applicant shall make a draft available to the public, hold a public hearing and incorporate residents' opinions into the report

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**Legal Basis**

- ▶ Rulemaking of Nuclear Safety Act
  - ▶ Nuclear Safety Act (Article 103-2)
    - ▶ Obligation of active disclosure of nuclear safety information
  - ▶ Enforcement Decree of the Nuclear Safety Act (Article 146-2) & NSSC Notice
    - ▶ Specified provision for target and method of proactive information release even without the public's request
    - ▶ Establishment and operation of "Nuclear Safety Information Center(NSIC)"
  - ▶ Target Information
    - ▶ Documents for Application of CP, OL or CO
    - ▶ Review Report of CP, OL, or CO
    - ▶ Inspection Report
    - ▶ Environmental Monitoring Report
    - ▶ Maritime Environmental Assessment Report, and etc.

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**Legal basis**

- ▶ Amendment of the Rules on Operation of NSSC Meeting
  - ▶ Rules for meeting minuet disclosure and procedure of disclosure
    - ▶ Amendment to disclose the shorthand report as well as the meeting minuet
    - ▶ Those who want to attend the meeting should submit the application form 24 hours before the meeting and get permission from the chairman
- ▶ Nuclear Safety Information Center
  - ▶ Comprehensive collection and release of safety information through the online portal
    - ▶ Preparation of policies and standards for active information disclosure
    - ▶ Collection and disclosure of nuclear safety information
    - ▶ Quality control and actualization of public information
    - ▶ Establishment and operation of information disclosure center portal
    - ▶ Answers to inquiries about public information

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## Legal Basis

- ▶ Nuclear Safety Information Center
  - ▶ <http://nsc.nssc.go.kr>
  - ▶ **At a glance** : Survey on Stress Test, Real-Time Environmental Radiation Level, Performance Indicator, Legislation, etc.
  - ▶ **The latest information** : Report of Regulatory Activities
  - ▶ **Safety information** : Nuclear Installation, Radiation Monitoring, Emergency Preparedness, Wastes and Spent Fuel
  - ▶ **Target information**
  - ▶ **News briefing**



▶ 10

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## Diversified Channels

- ▶ Nuclear Safety Councils (7 in total)
  - ▶ Purpose :
    - ▶ Establishment of a communication system for nuclear safety with NSSC, KINS, local governments and local residents (Quarterly meeting)
  - ▶ Role :
    - ▶ Information exchange and consultation on issues related to nuclear safety
    - ▶ Information exchange and consultation on nuclear accident
    - ▶ Information exchange and consultation on issues related to radioactive waste
    - ▶ Consultation on issues raised by local residents
    - ▶ Other matters that need to be explained to residents regarding to nuclear safety
  - ▶ Composition of Council (less than 20)
    - ▶ Officials(NSSC & local government), Experts(KINS & recommended by local government), Local resident representative

▶ 11

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## Diversified Channels

- ▶ NPPs Private Environment Monitoring Organization (5 in total)
  - ▶ Act on Assistance to Electric Power Plants Neighboring Areas (Article 10)
    - ▶ Programs (including survey and research activities) necessary for the development of the neighboring area, its environment and security management, and the advancement of the development of electric power resources
    - ▶ KINS holds the Forums and Training Programs with NPPs Private Environment Monitoring Organization)

Nuclear Safety Councils (7 in total)

NSSC

Information exchange and consultation on issues related to nuclear safety

Officials, Experts, Local Residents

VS

NPPs Private Environment Monitoring Organization (5 in total)

Ministry of Trade, Industry and Energy

Survey and research activities for the environment management

Officials, Experts, Local Residents, Recommendation by Civic Group, City Council, and Residents

▶ 12

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## Diversified Channels

- ▶ Education and Training Program for Public
  - ▶ Safety Experience Courses at KINS : *Good Practice of 6<sup>th</sup> CNS review meeting*
    - ▶ School teachers, students, parents, and university students
  - ▶ **Classroom Training** : basic and general information of nuclear power generation, radioactive wastes management, emergency preparedness, etc.
  - ▶ **Field trip** to NPPs or National Research Lab., etc.
  - ▶ Total 74 programs (over 3,500 participants) in 2015



▶ 13

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## Diversified Channels

- ▶ SNS (Blog, Twitter, Facebook, You tube)
  - ▶ Blog : Operated and updated by NSSC and linked to NSSC website
    - ▶ **Information** : Meeting minutes of commissioners, General information regarding regulatory framework and process, Explanation of regulatory issues, Information sharing of government policy besides nuclear, Real-time monitoring of environmental radiation, Graphic information
  - ▶ **Daily Visits** : over 2,100



▶ 14

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## Diversified Channels

- ▶ Environmental Radiation Levels available to the Public
  - ▶ Real time monitoring of nationwide environmental radiation level
  - ▶ Open to the public using web site and mobile phone application
    - ▶ <http://IERNEt.kins.re.kr> and eRAD@NOW



▶ 15

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## Diversified Channels

- ▶ Stress Test for Operating NPPs
  - ▶ To evaluate plant response to extreme natural hazards exceeding design basis as a way to reassess the safety of operating NPPs
  - ▶ 3 Step Approach to Review
    - ▶ Self-assessment by operator → Expert Review by Civic Team and KINS → Report to the NSSC
    - ▶ To ensure the objectivity and transparency of the assessment results
      - ▶ Briefing to the local residents and Nuclear Safety Council, and Open to the web site
- ▶ Joint Exercise of Radiological Emergency Preparedness and Response
  - ▶ According to Act on Physical Protection and Radiological Emergency
  - ▶ To enhance the emergency response capability of local government and improve the effectiveness of resident protective measures through voluntary metropolitan participation
    - ▶ Organized by local government every two years
    - ▶ Held at Kori site in 2014, at Hanbit and Hanul site in 2015

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## Concluding Remarks

- ▶ Who are involved
  - ▶ Anyone who is involved in or affected by a course of regulatory action
  - ▶ Not only the ones who support or express confidence, but also those who object or offer criticism
- ▶ What are involved
  - ▶ Not only typical outreach activities or press release
    - ▶ Web site, Social Networking(Blog, Twitter, Facebook, etc.), Brochure, Handbook
  - ▶ But also regulators' activities and decision
    - ▶ Meeting minutes, Shorthand, Expert Review, Public Hearing
- ▶ When to involve
  - ▶ Should be in a decision-making process, not an afterthought step to decision-making results

▶ 17 한국원자력안전기술원

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## Concluding Remarks

Practices and Continuous Efforts	Ways Forward and Challenges
<ul style="list-style-type: none"> <li>▶ Transparency and Openness               <ul style="list-style-type: none"> <li>▶ Cornerstone of the regulator as the strong and trusted source of information</li> <li>▶ Public engagement as a means of ensuring transparency and openness</li> </ul> </li> <li>▶ Independence and Impartiality               <ul style="list-style-type: none"> <li>▶ Totally differentiated from Isolation</li> <li>▶ A key trait of objective and impartial source of information</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>▶ To accomplish the regulatory mission, when we;               <ul style="list-style-type: none"> <li>▶ Open the process</li> <li>▶ Listen to opinions</li> <li>▶ Get feedback from others</li> <li>▶ Cooperate as partners who work with and decide together, but, the following remains;                   <ul style="list-style-type: none"> <li>&gt; to what extent</li> <li>&gt; how to leverage</li> <li>&gt; how to address differing standards of accountability</li> </ul> </li> </ul> </li> </ul>

▶ 18 한국원자력안전기술원

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Thank you

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