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*Regional Workshop on the Development of a Nuclear Safety
Knowledge Management Programme for the Regulatory Body*

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National Presentation

Philippines

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National Context



The **Philippine Nuclear Research Institute (PNRI)** is the sole agency of the government **mandated to advance and regulate** the safe and peaceful applications of nuclear science and technology in the Philippines.

The PNRI as the regulatory body, through its Nuclear Regulatory Division, monitors the acquisition and retention of nuclear knowledge for users of nuclear and radioactive materials from various fields such as industry, medicine, education and research.

The PNRI contributes to national welfare by leading in the development of nuclear and radiation applications in the country which benefit various sectors such as agriculture, medicine, industry, and the environment. PNRI also harnesses the unique advantages of nuclear and radiation applications to serve its customers from a wide range of sectors.

Knowledge Management

- The PNRI has established a **Knowledge Management Programme covering both its promotional and regulatory functions** and works to achieve the objectives as contained in its KM Policy Statement,

“Nuclear Knowledge Management (NKM) as an Integral part of the Management System will **foster Innovation in nuclear research and development, nuclear services, and technology diffusion through knowledge sharing, and enable appropriate and well-informed nuclear regulatory decision-making** within the framework of the Philippine Nuclear Research Institute’s (PNRI) objectives and goals. NKM will focus on identifying, creating, accessing, capturing, sharing, integrating and preserving knowledge assets and turn PNRI into a knowledge-based organization.”

PNRI Policy Instruction No. 001, 22 August 2013, Series of 2013

- The programme is implemented through a Nuclear Knowledge Management Committee. In 2018, the Committee was renamed simply as KM Committee to avoid confusion of its scope.

Knowledge Management

- **Stakeholders**
 - PNRI Staff and Project Collaborators
 - Knowledge transfer to licensees, students, academe, etc. through trainings, OJTs and research opportunities
- **Successes**
 - Knowledge Preservation and sharing components integrated into the PNRI's Quality Management System and Strategic Performance Management System (SPMS)
 - The PNRI QMS ISO9001:2015 contains all documented procedures of PNRI processes and work instructions which are stored in the PNRI Intranet accessible by all employees (continuously updated when improvements are done after every audit)
 - The SPMS contains guidelines for mentoring and other forms of capturing tacit knowledge
 - Creation of a PNRI Knowledge Database containing knowledge capacity Topic Experts
 - Inventory of Critical Knowledge Resources
 - Knowledge Management Survey for retiring employees
 - Conduct of individual technical study groups
 - Digitization of the BNPP FSAR and PSAR and other critical documents
- **Challenges**
 - Poor capture / preservation of tacit knowledge
- **Others:**
 - Maintenance of a database of authorized radiation workers, through the RAIS, that includes information on their trainings and experiences

Knowledge Management



- Ways of fostering a KM culture
 - **at the National level**
 - *Collaborators share knowledge management resources*
 - **at the corporate level**
 - *Setup the right, conducive environment for knowledge sharing, e.g., reward system for those who practice knowledge sharing, make available a knowledge sharing tool/platform – I.T. tool, time and venue*
 - *Create a tool for preservation and storage of knowledge resources which provides for easy access and retrieval*
 - *Institutionalize processes that will allow for the creation, capture , preservation and retrieval of knowledge resources*

Nuclear Safety Knowledge Networks



- In which nuclear safety knowledge networks is your country participating?
 - Asian Nuclear Safety Network
 - **What is the purpose of the network?**
 - A sustainable regional network for achieving a high level of nuclear safety in Asia
 - **Who are the stakeholders?**
 - Bangladesh, China, Indonesia, Japan, Kazakhstan, Republic of Korea, Malaysia, the Philippines, Singapore, Thailand and Viet Nam, four supporting countries, Australia, France, Germany and U.S.A., one associate country of Pakistan and two supporting organizations, ASEAN and EC.
 - **What are the KM benefits of this particular network?**
 - sharing of knowledge, experience and expertise in the area of nuclear safety through capacity building activities and IT platforms.
 - Fosters cooperation within the region and among states facing similar issues
 - **What/who is missing from the information exchange?**
 - Difficulty in engaging participation of more national stakeholders

Nuclear Safety Knowledge Networks



- Information about country involvement in international activities and working groups
 - Participation in EU INSC Project PH3.01/09 2013 (2013 –2017) on strengthening the capabilities of the regulatory body
 - KM ideas: preparation of program for knowledge gaps analysis and knowledge retention on the organizational level
 - What KM ideas, tools, processes have you learned and incorporated into your own organization from participation in international activities
 - *Identification and preservation of Knowledge Resources*
 - *IT platform for storage and retrieval of explicit forms of knowledge in the organization – INTRANET*
 - *Preservation of knowledge from retirees using a survey form*
 - What would you like to see in the future as a participant of a KM working group?
 - *Sustained cooperation and technical support*

Conclusions

- The PNRI has established a **Knowledge Management Programme covering both its promotional and regulatory functions.**
 - *The successes and challenges of PNRI's Knowledge Management Programme were highlighted.*
- PNRI is part of the Asian Nuclear Safety Network (ANSN). PNRI employees have also been involved in trainings on knowledge management organized by the IAEA and the EU INSC Project PH3.01/09 2013 (2013 –2017) on strengthening the capabilities of the regulatory body.
- The current scope of PNRI's Knowledge Management Programme is currently **organization-wide**. There is a need for the programme to increase in scope and consider all national nuclear stakeholders especially as the Philippines now has a National Position on Nuclear Power & has plans for the creation of an independent regulatory body.

Key References

- PM-PNRI-07-04 (Preservation of Knowledge Management Materials)
- EU INSC PH3.01/09 2013 Project Final Report



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Thank you!

*Maraming
Salamat!*

