



Asia-Europe Meeting (ASEM)

4th Seminar on Nuclear Safety

Knowledge Management to Enhance Nuclear Safety

Madrid, from 29th to 30th October 2015,

A. Introduction

Capacity building required for national nuclear programs has been identified by many countries and international organizations, as a critical issue in ensuring nuclear safety. There is a general consensus about that capacity building model proposed by the International Atomic Energy Agency is an adequate approach to enhance and support national nuclear policies.

According to such model, the national capacity building requires an integrated approach based on four pillars: human resources development, education and training, knowledge management and knowledge networking. In this context, Nuclear Knowledge Management has become a high priority in many countries and international organizations and it has been taken into account to develop and implement specific strategies in ensuring safe and sustainable operation of nuclear facilities

At national level, a sustainable approach should include the necessary Nuclear Knowledge Management actions to ensure that every actor having a significant role in the national nuclear programs infrastructure acquires, preserves and improves its corporate and individual knowledge. In particular:

- governmental institutions: to ensure continuity and coherence in the decision making process related to national nuclear policy;
- operators: to ensure that design, construction, operation, dismantling and any other activity related to their facilities are conducted with the highest level of safety;
- regulators: to implement effective regulatory processes to verify compliance with nuclear safety requirements in any phase of the life-cycle of every facility or activity related to radioactive or nuclear material;
- technical support organizations: to provide technical assistance to regulators and decision makers, regarding safety of nuclear programs and nuclear facilities;

- research and development organizations: to create knowledge to improve safety and facilitate its verification;
- educational institutions: to provide the national nuclear program with enough experts having a wide and deep scientist, technological, and operational knowledge and
- service providers: to provide the system with the necessary expertise to reach its goals and objectives and compliance under a strict compliance with safety requirements.

B. Objectives

At the 3rd Seminar on Nuclear Safety that took place in Yogyakarta from 4th to 6th November 2014, the discussions and presentations gave rise to the identification as part of the conclusions of the knowledge management as a topic proposed for following ASEM Seminars.

The main objectives of the 4th ASEM Seminar on Nuclear Safety are to provide a forum for discussions on nuclear safety and to foster Asia-Europe capacity-building and co-operation in nuclear safety. For this 4th Seminar, it is proposed to share information on national and regional Nuclear Safety Knowledge management programs, particularly in human resources development, education and training, knowledge management and knowledge networking in all the nuclear safety related issues such as construction, operation and decommissioning of nuclear facilities; spent fuel and radioactive waste management; transport of radioactive material; etc.

C. Topics of discussion

The ASEM members and invited speakers are expected to deliver presentations according to a structured program of sessions, which will be developed and distributed in a short term. The topics for the sessions are expected to consider the approaches and development at every involve party, from governmental institutions, operators, regulators, technical support organizations, research and development organizations, educational institutions and service providers.

Attention on the importance of knowledge management in every phase of the facilities life cycle, from design to dismantling and decommissioning should be paid, as well as explore the relevance of knowledge transfer.

D. Participants

Participation is open to all 51 ASEM Partners and experts from relevant International Organizations dealing with nuclear safety (e.g. IAEA, CTBTO, WANO, ASEANTOM, EC, etc). A number of authorities from ASEM Partners (Australia, Croatia, Germany, Indonesia, Lithuania, Portugal, the Russian Federation and Thailand), as well as international

organizations (DG Energy and Joint Research Centre from the European Commission and European Nuclear Safety Training and Tutoring Institute) have already expressed their support to this Seminar.

The Seminar is targeted at the following persons:

- a. senior policymakers or operational experts from regulatory authorities and other relevant ministries;
- b. experts from academia or think-tanks;
- c. experts from the nuclear industry; and
- d. experts from international organizations dealing with nuclear safety.

E. Venue and dates

The seminar will be held in Madrid, Spain from 29th to 30th October 2015. The exact venue for the seminar will be confirmed at a later date.

F. Costs

As host, Spain will bear the costs of local conference and hospitality event. Participating ASEM Partners are requested to cover the cost of travel and accommodation for their respective Delegates.

G. Contacts

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