

SNSTC/COE's Practice on Human Resource Development in the Field of Nuclear Security

Abstract:

Nuclear security is a shared responsibility of the international community. China claimed political views to build sustainable and balanced global nuclear security framework through stepping up political input, national responsibility, international cooperation and nuclear security culture, which fully demonstrates China's responsibility to work with other countries to promote global governance of nuclear security. Since Center of Excellence (COE) of China came into operation in 2016, hundreds of training courses and workshops have been held, training more than 3000 professionals for international community. COE are ready to continue to contribute to nuclear security training and human capacity building for the Asia-Pacific region and the world [1].

Background

As of March 31st 2019, China has put into commercial operation of a total of 45 nuclear power units (excluding nuclear power information in Taiwan), with installed capacity of 45895.16 MWe [2]. Chinese government attaches great importance to nuclear security, and has made efforts to enhance the security of nuclear materials and facilities and ensure the sustainability of nuclear security. The State Nuclear Security Technology Center (SNSTC) was established in November 2011. As an affiliate to China Atomic Energy Authority (CAEA), SNSTC's main function are to provide technical support for nuclear material regulatory, nuclear security and nuclear export & import; to conduct nuclear security international exchange and cooperation; to undertake the construction and operation of COE.

COE was completed and put into operation in March 2016, which was built in cooperation with the United States. COE integrates mature and advanced technology & instruments at home and abroad which cover nuclear security, nuclear safeguards, nuclear material control, physical protection and other fields, including Demo & Training building, Analytical Laboratory, Environmental Laboratory, MOCK facility, Nuclear Material Bunker, Response Force Training and Exercise Facility and Physical Protection Test Area. The center acts as an international platform for nuclear security human resource development, technology R&D, international exchanges, equipment testing and certification [3].

Objective

This paper emphasizes the importance of nuclear security in China, demonstrates that China has attached great importance on nuclear security human resource development, and expresses SNSTC/COE's great effort and good practices on improving training and human capacity building for domestic and Asia-Pacific region.

Structure

This paper is divided in six sections. The first section introduces overview of SNSTC/COE as the China's sole comprehensive nuclear security training and R&D organization. The second section provides introduction of essential facility and equipment. The third section explains the unique features of nuclear security training of SNSTC/COE. This explanation will include an in-depth discussion of five constituents: curriculum system, systematic approach to training, instructor identification, training tools, information management. The fourth section reviews output of continuous international cooperation and collaboration between SNSTC/COE and partners. The fifth section describes challenges and the way forward, and the sixth section concludes the paper.

Reference List

- [1] . The 62nd IAEA International Conference:National Statement:China.
- [2] . China Nuclear Energy Association, "National nuclear power plant operation from January to March 2019"(<http://www.china-nea.cn/site/content/36044.html>)
- [3] . Chinese Government, "China's progress report in the field of nuclear security"(http://www.gov.cn/xinwen/2016-04/01/content_5060311.htm)

Gender

Male

State

China

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Track Classification: CC: Role of Nuclear Security Support Centers to support and sustain national nuclear security regimes