

Implementation, Experience and Challenges of Radiation Protection E-learning in China

Abstract

Nuclear technology utilization is highly specialized which involves a wide range of laws and relevant and professionals. Some nuclear technology utilization enterprises have a low level of radiation safety system documents and inadequate protection measures. To standardize radiation safety and protection training, and effectively reduce the burden of enterprises, the National Training Platform for Radiation Safety and Protection of Nuclear Technology Utilization (hereinafter referred to as the National Training Platform) has been online since January 1, 2020, established by the Ministry of Ecology and Environment (MEE) of China. Since the National Training Platform was put on line, more than 76000 radiation safety practitioners have learned online and passed the exam. Meanwhile, it was also found some challenges such as the low pass rate of the training assessment and the management of the National Training Platform to be improved.

Background

In the control of normal and potential exposures, the provision of information and training related to radiation protection to all workers involved in radiation work, which is an important component of the health management system for radiation workers, is considered as a basic requirement for the implementation of the principle of optimizing radiation protection. The findings of the International Atomic Energy Agency (IAEA) on radiological accidents highlight the importance of adequate and appropriate training for all those who work with ionizing radiation, and it is clear from the many accidents that the lack of training is a major cause of errors with serious consequences.

China formulate relevant laws, regulations and standards in radiation protection, which made relevant provisions on radiation protection safety and training, such as the Law on the Prevention and Control of Occupational Diseases, the Law on the Prevention and Control of Radioactive Pollution, the Regulations on the Safety and Protection of Radioisotopes and Radiation Devices, and the Basic Standards for Ionizing Radiation Protection and the Safety of Radiation Sources and so on.

Objective

This paper emphasizes the importance of radiation protection training, demonstrates that China has attached great importance on radiation protection human resource development, and expresses experience and challenges on improving training and education for workers.

Structure

This paper is divided in six sections. The first section introduces overview of the National Training Platform as the China's sole comprehensive radiation protection e-learning platform. The second section provides introduction of main function. The third section explains the unique features of the National Training Platform. This explanation will include an in-depth discussion of five constituents: curriculums, training resource, user profile, news, registration for exam. The fifth section describes challenges and the way forward, and the sixth section concludes the paper.

Reference List

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