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Egyptian Safety requirements proposal for storage and transport of spent fuel

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The storage and secure of SNF should be manage in a safe manner. Egyptian Nuclear Power Plant Authority (ENPPA) is responsible for the safe management of spent nuclear fuel produced by nuclear power plant. The Egyptian nuclear power plant project consists of four Units with VVER-1200 reactors. The operation of 4 NPP units will be accompanied with the accumulation of SNF in the amount of 168 SFAs in average per year. In the course of operation of 4 units during 60 years approximately 11,532 SFAs will be accumulated. TUKs as dual-purpose casks will be used during long-term storage and transportation of the spent fuel assembly for the Egyptian Nuclear Power Plant (ENPP).

The aim of the paper is to establish a proposal for Egyptian safety requirements for safe storage and transportation of spent nuclear fuel. The proposal guided by the Egyptian law on regulation of nuclear activities and radioactivity (law no. 7 of the year 2010) and its Executive regulations, recommendations of IAEA safety standard, the joint convention on the safety of spent fuel management and on the safety of radioactive waste management and Russian nuclear safety requirements. Specific legislation has been established in the nuclear law to: identify responsibility for safety, security and safeguards, and management of spent fuel and radioactive waste (transportation, handling, and storage). Egyptian proposal cover the safety considerations for storage and transportation of spent nuclear fuel.

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Country or International Organization

Egypt

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