

Development of Regulatory Technical Requirements for Integral Type Research Reactor

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Abstract

This paper presents the current status of the study on the development of regulatory technical requirements for the licensing review of an integral type research reactor of which the license application is expected in a few years. According to the Atomic Energy Act of Korea, the integral type research reactor is subject to the technical requirements for power reactors in the licensing review. But, some of the requirements may not be applicable or insufficient for the licensing reviews of reactors with unique design features. Thus it is necessary to identify which review topics or areas can not be addressed by the existing requirements and to develop the required ones newly or supplement appropriately. Through the study performed so far, it has been identified that the following requirements need to be developed newly for the licensing review of the integral type research reactor : the use of proven technology, the interfacial facility, the non-safety systems, and the metallic fuels. The approach and basis for the development of each of the requirements are discussed.

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