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Analysis of US and Ukrainian Experience in Using Methodological and Computer Approaches to Nuclear Safety Justification of Nuclear Fuel Management Systems

The paper analyzes US regulatory requirements for nuclear safety justification of the nuclear fuel management systems and their comparison with relevant Ukrainian requirements in order to define differences in using methodological and computer approaches that decrease the conservatism of criticality assessment of these systems without reducing the achieved level of safety.

Keywords: nuclear fuel management systems, nuclear safety, criticality.