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Assessment of Fukushima-1 Design Deficiencies Based on Severe Accident Consequences with Recommendations to Improve Safety of Ukrainian Nuclear Power Plants

The paper presents the chronology of the Fukushima-1 accident sequence, describes the response of safety systems and personnel actions, assesses BWR design deficiencies, and provides recommendations to enhance the safety of Ukrainian nuclear power plants.

Keywords: earthquake, tsunami, blackout, loss of heat removal, safety systems, fuel pool, fuel damage, hydrogen explosion.