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Requirements for Instrumentation and Control Systems of Ukrainian NPPs Following Analysis of the Fukushima-1 Accident

The lessons learnt from the Fukushima-1 accident are specified relative to instrumentation and control systems (ICS) important to safety. Their vulnerability to external hazards is considered. Recommendations are provided on revision of current nuclear safety standards and regulations related to ICS and their components.

Keywords: accident, NPP, Fukushima-1, functional safety, instrumentation and control systems, ICS components, standards and rules, stress test.