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Analysis of Operating Reliability of Nuclear Power Plant
Digital Control Systems

The report contains some results of statistical analysis of operating data about reliability of digital control systems for nuclear power plants with WWER reactors. Information was collected in Ukraine. Analysis had two directions: analysis of failures and analysis of NPP safety violations because control systems. The last direction included: determination of types of systems and reasons, leading to violations; determination of violations safety significance; analysis of common cause failures leading to violations; comparison influence to violations by new digital systems, old digital systems and analog systems.