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Influence of Electric and Electromagnetic External Factors on the Safety of I&C Systems Important to NPP Safety

The electric and electromagnetic external factors affecting the safety of NPP instrumentation and control systems are considered. The paper shows their influence on I&C systems important to NPP safety, methods of dealing with harmful effects, examples of upgrades at NPP I&C and solutions for improving their immunity, and values of external factors that may pose a threat to health and life of NPP personnel.

Keywords: NPP, I&C systems, software and hardware complexes, technical means of automation, electric impacts, electromagnetic impacts, quality of power supply.