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**Research and development of measures to prevent the causes of overlap in isolation of low voltage auxiliary power circuits of high-power hydroelectric station.**

The causes damage auxiliaries hydroelectric generator voltage during normal switching tires 500 kW. It is shown that the equipment is exposed, exceeding the test. It is shown that the use of surge arresters only enough to eliminate the causes of accidents. Recommendations to address the causes of failure.

*Key words: overvoltage, generators, own needs, ARF.*

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