Optimization ways of algorithms for calculation multiple non-symmetrical states and calculation relay protection devices settings in software «ARU RZA».

Abakumov S. A., Vishtibeev A. V., Gayazov S. E., Nadobnaya E. A., Savvin D. N., Erekaikin E. I. Most effective ways of optimization calculating algorithms in software «ARU RZA» are described in article. Protection engineer actual issues is considered. Algorithms of equivalent areas of nets and

effects of this operation to time of work. Also considered ways to creating subnets from base net. Usage of binary search algorithm during calculating protection settings is described. *Key words: software, short-circuit currents calculation, settings of relay protection, operation analysis, optimization of calculating algorithms.*