

The research of conditions for unstable single-phase short circuits clearance in ultra-high voltages lines with installations of longitudinal compensation.

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In this article treat a questions of single-phase reclose of transposed UHV line equipped of longitudinal compensation plant, triple beam and quad beam shunt reactor. An algorithm is being developed to calculate secondary current of arc and transient recovery voltage. The specifics of the implementation of single-phase reclose in case of accidents at various steps of transposition are clarified.

Key words: transposed UHV line, longitudinal compensation plant, single-phase reclose, transient recovery voltage, secondary current of arc, reclosing dead time.