

## **A method of forming a digital simulation models of the industrial enterprises power supply schemes.**

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Topology of industrial enterprises external power supply schemes via 110–500 kV power distribution networks of regional power systems is analyzed. To improve digital models of power systems developed to study effectiveness of technical solutions for reliable power supply of industrial enterprises the criteria for detalization of its external network representation is proposed. Recommendations on the representation of industrial enterprises internal power supply schemes in power systems digital models are given.

*Keywords: power distribution networks, external power supply scheme, internal power supply scheme, motor engine, industrial enterprises, substation, busbars, breaker.*