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MODELING AND EVALUATION OF POWER DISTRIBUTION SYSTEM RELIABILITY INCLUDING RECLOSERS

BY

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Abstract. The paper aims to present a possibility of modeling and evaluation of power distribution system in the specific case of the reclosers presence within the overhead lines. The evaluation method is based on the identification of the fault modes and the analysis of the effects. The presented analysis mode is applied to a 20kV overhead line, fitted with reclosers. There is established the set of performance indices for the feeder: SAIFI, SAIDI, ASIFI, ASIDI, ASAI and ASUI.

Keywords: reliability indices, reliability modeling, power distribution system.