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OPTIMAL POWER FLOW CONSIDERING STABILITY MARGIN

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Abstract. This paper addresses proper stability constraints in a market structure based on an Optimal Power Flow (OPF) approach. Stability margin calculation is based on trace of specific eigenvalue. The proposed technique is tested on the IEEE 14-bus benchmark system and compared with a "standard" OPF algorithm. The results obtained demonstrate the advantages of the proposed technique over existent dispatching techniques from the

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