

عنوان مقاله:

security based multi-objective congestion management using demand response programs

محل انتشار:

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خلاصه مقاله:

It is important to keep the power system secure from a voltage and dynamic stability viewpoint after relieving congestion, because the power system may operate at a low stability level in this situation. Therefore it is essential to consider power system stability margin during the congestion management (CM). The multi-objective congestion management framework presented in this paper tries to optimize three competing objective functions of congestion management cost, voltage and dynamic stability indexes. In this paper Demand Response Programs are implemented for congestion management in order to reduce congestion management cost and improve power system stability margins. The proposed method is tested on a New- England 39- bus test and results are compared with single-objective method

کلمات کلیدی:

Congestion Management, Demand Response, Voltage stability, Transient stability

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