

عنوان مقاله:

Seismic Vulnerability of Electrical Substations in Previous Earthquakes

محل انتشار:

کنفرانس بین المللی دستاوردهای نوین پژوهشی در مهندسی عمران معماری شهرسازی (سال: 1394)

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خلاصه مقاله:

Electric Power substations are the key components of power supply systems, and then damage to their equipment will lead to disoperation of the whole substation or widespread power disruptions. This paper tries to provide a summarized view of vulnerability of substation's equipment through physical performance of power supplies in past earthquakes, and the importance or dependency of each element in substation. Previous earthquakes have proven excessive vulnerability of substation elements from different points of view- percentage of vulnerability or functionality. It can be seen from the results that most types of substation equipment involve circuit breakers (CB), power transformers (PTR) and their bushings, current transformers (CT), battery racks, reactors, suspended equipment, and capacitor banks, have possessed great vulnerability on seismic events

کلمات کلیدی:

lifeline, electrical substations, seismic vulnerability, physical damage

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