ABSTRACT

Analysis Structure of POP Hotel Building To Resist Design Earthquake with *Pushover Analysis Method*

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In a fact, the development of Indonesian building codes demand higher design earthquake load. This condition generates the need for retrofitting in existing building that was design with older building codes, in purpose to acquire the safe building performance. The significant load increase shown in the latest building code (SNI 03-1726-2012) gives the urgency to perform seismic risk assessment and retrofit design for this building.

Seismic risk of the building is determined from the performance level through static non-linear analysis (pushover) based on the design earthquake of the new code (SNI 03-1726-2012). This result means that the damage control performance shown is not valid, unless retrofitting is performed on each of the deficient element.

*Keywords : SNI 03-1726-2012, pushover, damage control, load of earthquake.*