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Comparative Study of the Seismic Assessment According to ATC-40, FEMA-356 and FEMA-440 for Existing Hospital Building Located at Baghdad City

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Keywords

*Pushover Analysis,
Moment-Curvature Analysis,
Response Spectrum,
Iraqi Seismic Code,
Capacity Curves,
Plastic Hinge.*

Abstract

Seismic evaluation, an important way to validate the buildings to resist earthquake loads. In reference, buildings can be divided into primary and secondary elements. The primary elements include the structural elements, while the secondary involve the non-structural elements. The comparative between ATC-40, FEMA-356 and FEMA-440 were investigated in the present study. The case study was introduced in this study of Thalassemia Center Hospital Building located at Baghdad, Iraq. The study conducted by using Iraqi Seismic Code (ISC-2017) response spectrum. The comparison of the results between the evaluation codes was carried out in terms of capacity curves and performance level. The comparison's results drew attention to important points. The results of the CSM method according to ATC-40 and an improved equivalent linearization procedure adopted by FEMA-440 differed because the equivalent linearization procedure relied on new expressions to assess effective period and effective damping. The results improved that the values of spectral response acceleration according to ISC-2017 were adequate and appropriate to use in the seismic analysis and design. Accordingly, it can be considered that the capacity spectrum method (CSM) based on FEMA440 produces results that are very conservative, whereas those obtained with the ATC-40 are invariably underestimated.

1.Introduction

An elastic analysis is an important method to indicate the elastic capacity and first yielding of structures. The main drawback of this way, it cannot predict the failure technique and calculate the redistribution of the forces during progressive yielding [1]. For the seismic evaluation of the existing buildings as well as the design of new constructions, the engineers use inelastic analysis procedures. It helps engineers better understand how structures will behave when subjected to major earthquakes, where it is assumed that the elastic capacity of the structure will be exceeded [2]. Two methods for investigating inelastic seismic performance are available. One is the nonlinear time history analysis, and another is a nonlinear static analysis called "Pushover analysis". The nonlinear time history analysis can be divided into two methods. One is based on the dynamic response of an equivalent single degree of freedom system derived from a multi-degree of freedom (MDOF) system [3,4]. The other is based on the equivalent response directly obtained from the nonlinear dynamic response of a MDOF system [5]. Static pushover analysis has been the preferred method for seismic performance evaluation. Pushover hereinafter is not a recent development, and its genesis traced back to the 70's decade [6]. The static pushover analysis can also be divided into two methods. One is based on the first-mode pushover analysis [7]. The other is based on the modal pushover analysis (MPA), where higher mode effects are taken into account [8]. Pushover analysis is based on the assumption that the dynamic response of the structure is controlled by the elastic fundamental mode, which is the case for most regular buildings [9]. Many codes of seismic evaluation discussed in this study. It contains available simplified nonlinear analysis methods, referred to as nonlinear static according to ATC-40[10] procedures, include the Capacity Spectrum Method (CSM) that

uses the intersection of the capacity (pushover) curve and a reduced response spectrum to estimate maximum displacement. It also contains the Displacement Coefficient Method (DCM) according to the FEMA-356[11] procedures that use pushover analysis and modified the linear elastic response to estimate maximum displacement; and Improvement of nonlinear static seismic analysis procedures (Improvement Capacity Spectrum Method) (ICSM) and Displacement Coefficient Method (DCM) according to FEMA-440 [12]. There have been many research studies regarding the differences between the evaluation international codes. Mahaylov and Petrosi [13] studied five codes for evaluating existing buildings Italian Seismic Code [14], EC8 [15], FEMA-356 [11], ATC-40 [10] and FEMA-440 [12] were analyzed by looking at the theoretical basis of the problems. It found that the dynamic P- δ effect is not considered by the Italian seismic code and the EC8. According to FEMA440 [12], the procedures implemented in FEMA356 and ATC-40 [10] are not able to adequately capture the dynamic instability phenomenon. The non-linear static procedure in the Italian seismic code and EC8 is based on the Equivalent SDOF system's elastic-perfectly plastic nature. Degradation effects of strength and stiffness are not considered. This simplification may lead to underestimation of the target displacement. Cavdar and Bayraktar [16] included several performance evaluation procedures. Four main guidelines/codes describe the most common evaluation procedures: ATC-40 [10], FEMA 356 [11], FEMA 440 [12], and TEC-2007[17]. The static pushover and nonlinear time history studies analyze the nonlinear seismic behavior of a collapsed reinforced concrete (RC) residential building in Turkey. It found that the current structural structure of residential buildings did not meet the ATC-40 [10], FEMA 356 [11], FEMA 440 [12], and TEC-2007[17] predicted standards of performance (PS). According to both nonlinear static pushover analysis and time history analysis under earthquake loads, the building constructed

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