



CONDITION ASSESSMENT OF BUILDING CONCRETE STRUCTURES USING NDTs – CASE STUDY

Bengin A Herki¹, Jamal Khatib², Zina Ramadhan¹, and Banaz Hamadameen¹

¹Department of Civil Engineering, Faculty of Engineering, Samarra University, Iraq

²Faculty of Engineering, Beirut Arab University, Lebanon

(bengin.masidi@sorun.edu.iq) Email of the corresponding author

Abstract – The quality of concrete and serviceability for three old buildings utilizing non-destructive testing (NDT) method of rebound hammer (RH) and ultrasonic pulse velocity (UPV) was assessed in the present study. Identification, classification and evaluation of in-situ concrete have helped us to decide whether these three buildings need to be repaired and in result extent their service life or it is not acceptable for its intended usage and they need to be demolished. To evaluate the level of deterioration in historical and fire-damaged buildings or infrastructures, non-destructive testing (NDT) methods can be used. In fact, NDT method employs inspection techniques to evaluate engineering properties to see if it is acceptable for its intended usage that does not need specimens to be crushed like the destructive testing method. The NDT method of rebound hammer (RH) and ultrasonic pulse velocity (UPV) in combination with conventional methods such as internal and external visual inspection and concrete color change to locate deterioration was used to evaluate the quality of concrete structures for three old buildings. According to the results obtained the RH and UPV can be used as reliable tools to predict the mechanical properties of concrete structures subjected to fire and/or weathering deterioration. In addition, combining the two NDTs decreased inaccuracies caused by utilizing one method alone to evaluate concrete quality.

Keywords – Concrete; Deterioration; Non-Destructive Testing; Rebound Hammer; Strength; Structure; UPV.

1. INTRODUCTION

Regular inspection and assessment of concrete structures' quality is very important at various stages of a structures' existence, especially for infrastructures and historical buildings deteriorating for which advanced inspection procedures are required. For such concrete structures, it is necessary to determine whether the structure is suitable for its designed usage or not, which examining should be done without damaging the structure. Weather and fire resistance are the main advantages of reinforced concrete over other construction materials. However, when exposed to very high temperatures, the overall concrete expansion and decrease in tensile strength of steel result in the deterioration and structural collapse of

reinforced concrete [1, 2]. Concrete deterioration can also result from inadequate design or construction, operational accidents, chemical attack, corrosion, loading, aging processes, or any combination of these [3]. Therefore, there is a need for better and advanced inspection techniques instead of human visual inspection to locate hidden damages for monitoring and identify the exact portion of the deterioration of infrastructures such as bridges, dams and even pipelines. From engineering point of view assessing the condition of a structure is necessary for its safety and maintenance process to support economics and to meet sustainable development's goals [4-6]. To evaluate the level of deterioration and to ensure the quality of concrete in historical and fire-damaged

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