Thesis Title

Thesis Supervisory Committee

Name

Degree

A Case Study on the Effects on the Building

Witcon Duangkeo

The Socio-Economic Impact of a Seismicity:

Construction and Design in Bangkok Metropolis

Master of Science (Technology of

Chirasakdi Poonpol, M.S. in E.E.

Environmental Management)

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professionals and the construction workers. During the 1982-1985 earthquakes, which were felt in Bangkok Metropolitan area, the

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ABSTRACT

This study is aimed to investigate behavior, opinions and concepts of related persons in the construction industry : the administrative group felt that there was a direct impact an economy and financing. They proposed many measures and approaches to be used in new building codes. These will increase of costs of construction. Thus, the indirect impact follows the employment both on the skill and the unskill labours, such important aspects as saving and enduring work absence or the unemployed conditions because of the break or pause in construction.

The sampling population for this study is selected from practitioners in the state and privated sectors in Bangkok and Thonburi by dividing into 3 catagories, Small size with less than workers, medium size 51-150 and large size from 151 upward.

This research uses questionnaires along with primary and secondary data and observation. Then analyse these data for relative values and percentage and means; for Standard deviation, Chi-square Test of homogeneity = x^2 and F-Test.

The results show that the seismicities have impacted on buildings and high-rise such that the concerned agencies proposed a new law to prevent the unpredictable disaster. The architects concern only with the designs which will cause difficulties and complications in construction. Geologists reveal that a possible maximum earthquake which occur in Thailand may be in the range of 5.0-6.0 on the Richter scale. This shows that a seismicity can certainly produce an impact on buildings. The construction workers show uncertainly on saving, of them have never a chance to do once regarding the absence of work, it is found that the main reason is due to the termination of the project. It is also found that the construction workers are commonly in the debt condition. Almost all of them can stand with the unemployment in a very short period.