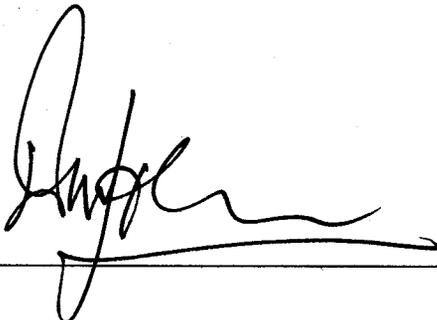Name   : Mr. Keatipun Wichinrojjarun

Thesis Title   : PCFS: A Computer Program for Analysis and Design of Post-tension

                          Concrete Flat Slabs

Major Field   : Civil Technology

Thesis Advisors   : Assoc. Prof. Dr. Nipon Thiensiripipat, Mr. Sorakarn Sritong-on

Academic Year   : 1999

Abstract

The analysis and design of flat slabs in post-tensioned concrete have many steps, are complex, time consuming and may have an error easily. In order to avoid these problems, a computer program was developed.

This computer program was written in visual basic version 5.0. The analysis of flat slabs uses "Equivalent Frame Method," ultimate strength design and can use unbonded tendons and bonded tendons. The analysis and design can employ three unit types, namely, Metric, S.I. and U.S. customary.

Examples were used to compare results using this computer program and a calculator, the results were similar. But, using the computer program can be done very quickly, and is easy to change the design data, reducing the time required and error that may occur.

_____Committee Chairperson