

## **Chapter 12**

### **Recommendations for Future Study**

1. Effect of other types of cement replacing materials such ash limestone powder, blast-furnace slag and silica fume shall be included in the heat generation model.

2. In this study, the effects of tensile creep and shrinkage strain are not included in the model. In the real mass concrete, creep and shrinkage occur simultaneously along with hydration and pozzolanic reaction. As a result, effects of creep and shrinkage strain must be introduced into the model in order to obtain more precisely predicted results.

3. According to the limitation such as dimension, design strength and working period of some mass concrete structures, thermal cracking can not be prevented. The adequate amount of temperature steel must be implemented to minimize the thermal crack width to be within the acceptable limit and a value of crack width is allowed. As a result, the effect of temperature steel must be included to the model and crack width must be predictable.