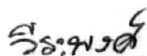
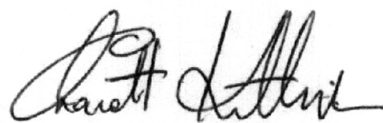


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This research focuses on the study of fire behavior originated from methanol in the storage room of lens manufacturing company. In this study a software, Fire Dynamic Simulator (FDS.) was used to simulate and predict the temperature distribution of the storage room while the fire occurs. Moreover a new design of storage room for fire prevention was also simulated. For the new design, the height of room was increased from 5 meters to close to roof and 12 sprinklers were installed. From the results obtained, it was found that with a new design of storage room, the temperature of storage room was decreased and the sprinklers were able to extinguish the fire in the storage room. With this improvement, the fire in the storage room originated from methanol could be prevented.



Student's signature



Thesis Advisor's signature

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