

## Abstract

The aim of this research was to evaluate outage cost of electricity interruptions in food manufacturing in Thailand. The parameters causing to difference in outage cost of electricity interruptions has been also studied. The studied parameters are season, location, type of food products, working hour. In this research, the samples used were received from 100 industries of food. Questionnaires were used as a tool to collect data, and then the obtained data were calculated by using Statistical Package for the Social Sciences (SPSS) program. Statistics for analyzing data are mean, standard deviation and one-way anova. The static significance is 0.05. The results found that an outage cost of electricity interruption of food manufacturing in Thailand was 2,809,000 Baht/hour. an average of electricity interruptions per time is 28.549 minute and an average of electricity interruptions is 3.840 times/year. Moreover, the results of testing hypotheses showed location and working hour were related to the outage cost with the significance of 0.016 and 0.010, respectively. On the other hand, season and type of food manufacturing were not related to the outage cost with the significance of 0.489 and 0.314, respectively.