

KANIT SEREETRAKUL : MAINTENANCE SYSTEM IMPROVEMENT FOR INCREASING  
PRODUCTIVITY OF TUNA CANNING INDUSTRY. THESIS ASVISOR : PONGSARN  
APIRATIKIAT, Ph.D, 176 PP. ISBN 974-579-045-1.

Basically, the canned food industry is granted to be one of the industries that facilitate the national economic development of Thailand. Particularly, canned seafood has been seriously developed for export to compete with other countries.

For most of the forty-eight canning factories in Thailand, maintenance is not well planned. Normally existing maintenance systems are to repair machines when they break down and maintenance task relies on experience not standard. There is no record of machines and spare parts are not kept on hand when needed. Because of these problems, most factories have been inefficiently operated which results in high production cost and low profit as well as the retardment of factory development.

The objective of this research is to improve maintenance system for increasing productivity. The system is to reduce the break down rates of machines. The study will be based on only one large sample factory which produces canned tuna. Consequently, the concept and method presented here can be applied to improve productivity in any other canning factories.

The improved maintenance system has reduced the chance of failure intensity ratio of machinery during operation about 3.54% and reduce the maintenance cost per unit of production about 0.26 baht per carton.