

## ABSTRACT

This project investigates the details of jobs in a long term period (8 hours per 1 shift). Unlike cyclic works, long term works or non-cyclic works are designed to operate long term process, to observe operating problem, or to decide the countermeasure when operations have some problems.

The example of working details is one part of Monosodium Glutamate (MSG) Production which are Decalcification, Saccharification, and Fermentation Process. Working operators are responsible for observing the machine condition, analyzing works in process, communicating other processes, etc.

A research of workload was done by work measurement method and analyzed by many techniques such as Process Time Chart, Classification of Works, Operation Time Chart, “Eliminate Control Rearrange Simplify” (ECRS) Principle, etc.

Our plan starts with studying the process existing. Next, we collect data and set the improvement target. Then, we analyze and develop an improvement plan to increase working efficiency. The study of the project includes interviewing operators, observing the problem, measuring working time, and analyzing improvement plan.

Before we implement the improvement plan, we must test operation by observing the working problems. The result of the research can decrease unnecessary jobs and at the same time increase labor productivity in the process.

We recommend using the concept of studying and method of improvement in many kinds of production so that we may gain more productivity.