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POONSOM PRASERTAKARAKUL : IMPROVEMENT OF STATISTICAL PROCESS CONTROL IN THE REFRI-

GERATOR COMPRESSOR FACTORY. : THESIS ADVISOR : ASSO. PROF. DAMRONG TAVEESANG -

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The objectives of this thesis are researching an appropriate Statistical Process Control (SPC) Method and evaluated of SPC effective in a Sample Production Line.

According to survey and study in Cylinder , Piston Scotch and Slider Production Line, some Production Line used SPC but not correct and appropriate. So that , I evaluated Machine Capability by using $\mathbf{C}_{\mathbf{PK}}$ and evaluated Process Capability by using $\mathbf{C}_{\mathbf{PK}}$, for designing the appropriate SPC.

The results of this project are:

- 1. Using 2 kinds of SPC for controlling the production process
 - 1.1 Using \overline{X} R Chart 2 stations
 - 1.2 Using CPS Check Sheet II stations
- 2. Using 4 kinds of SPC Evaluated
 - 2.1 Using C_P or C_{PK} in Production Lines
 - 2.2 Accuracy of Checking in checking point
 - 2.3 Percentage of Defective
 - 2.4 Total of Production

Summation from SPC are:

- 1) Using \overline{X} R Chart , % Defect isn't different , but % Total Productive is de ~ creased. (Detail in Chapter 5)
 - 2) Using CSP Check Sheet, Checking accuracy is increased. (Detail in Chapter 5)

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