

ABSTRACT

The objective of this study project is to apply the Statistical Process Control (SPC) Methodology to the production process of the a factory. SPC is one of the important tools of the quality control system. It is used to monitor the characteristics of the process and analyze to see whether the process is in or out of control, This project begins with the observation of the cable production processes Since there are many processes in the production line, it has to decide which process should be selected to apply SPC to monitor its characteristics. And the decision of data collecting (how to collect the sample and how many samples should be collected to construct the control chart) should be designed. The control chart that will be used is the np-chart, which is the control chart for attributes. The np-chart is used to determine the number of nonconforming items of the sampled product.

This project study is also a pilot project for the other processes in this line of production. It should be useful to improve the quality of the products when it is implemented in the future.