

QUALITY IMPROVEMENT TECHNIQUES FOR REJECTION CONTROL IN HEAVY ELECTRICAL MANUFACTURING INDUSTRY - A CASE STUDY

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ABSTRACT

Baffles are provided to guide the steam and condensate flow for efficient heat transfer and to support the tubes at regular intervals for vibrations free performance. The holes are drilled to very close tolerance to reduce the vibrations. The variations in the ligament size of the baffles were examined using the statistical quality tools like Fishbone Diagram, PDCA Cycle and Control Charts, etc. Proper Statistical Process Control starts with planning and data collection. Statistical analysis on the wrong or incorrect data is rubbish, the analysis must be appropriate for the data collected. Be sure to PLAN, and then constantly re-evaluate situation to make sure the plan is correct.

The key to any process improvement program is the PDCA Cycle. The fishbone chart organizes and displays the relationships between different causes for the effect that is being examined. This chart helps to organize the brainstorming process.

The major categories of causes are put on major branches connecting to the backbone, and various sub-causes are attached to the branches. A tree like structure results shows the many facets of the problem. The method for using this chart is to put the problem to be solved at the head, then fill in the major branches.

People, procedures, equipment and materials are commonly identified causes. This is another tool that can be used in focused brainstorming sessions to determine possible reasons for the target problem. Finally inferences drawn by using these tools and also suggestions offered for reducing the levels of rejection to a great extent.

KEY WORDS: Baffle, Fish Bone Diagram, Ligament, Pdca Cycle, Rejection