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Major department - Engineering Technology

Category - ['Business, Engineering and Technology']

Disability - No

Name of abstract – Six Sigma Green Belt: Scrap Reduction

Abstract - Location of Six Sigma scrap reduction project:
EaglePicher
Joplin, MO.
Building: Crossroads

Problem Solving Methodology:
Six Sigma DMAIC model utilizing multiple statistical tools

Problem Statement:
For the past five months Product C has averaged a 59% scrap rate with a cost of $112,519. This scrap rate has also impacted on time delivery.

Objective:
Propose solutions to help reduce scrap rate to 1.5% or below and have on time delivery.

Cost savings prediction:
Based on future production rates scheduled the cost savings would be $538,216.00

Scope of Project:
My team and I have narrowed down the scope to the two categories that are effecting the overall scrap rate. We found that those two categories relate to Tab-to-Lead welding issues and electrode misalignment.

Business case:
Reducing the amount of scrap that is currently created will help drive down the production cost as well as improve our lead time for the customer.

The Six Sigma Green Belt has been able to find some of the reasons associated to finding the root cause for these scrap rates. We are confident that the recommendations we came up with will help resolve the root cause to both of the areas of concern.