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CHAPTER 12

QUALITY CONTROL PRODUCT WITH USING THE FAILURE MODE AND EFFECT ANALYSIS (FMEA) METHOD AND FAULT TREE ANALYSIS (FTA) AT PT. AGUNG STEEL MAKMUR SIDOARJO

(Case Study: Handle Grandstone Iron)

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1. Introduction

The era of the industrial revolution 4.0 now makes all business people want to be ahead of the competition by providing high-quality products. Control quality is crucial to do because it will positively impact the company both on production and income. Quality control is a combined activity between engineering and management to measure products with characteristics then compare and take corrective action if there is a difference between the product and the quality standard [1]. Quality control uses techniques and activities to achieve, maintain, and improve a product or service quality. In other words, quality control is an effort to maintain and improve the quality of the products produced to confirm product specifications that have been determined based on the company leadership policy [2].

This industry's development has resulted in reasonably tight competition among companies to attract consumers' attention to use the resulting product. One of those factors influencing consumer decisions in choosing a product is the quality of the product [3]. Given the importance of product quality in every company, it is necessary to control product