USULAN PERBAIKAN KECELAKAAN KERJA PADA PROSES PENCETAKAN PT MEGA JAYA LOGAM MENGGUNAKAN JSA DAN FTA

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ABSTRAK

PT. Mega Jaya Logam merupakan salah satu industri manufaktur yang berfokus pada bidang industri pengecoran logam dan permesinan. Produk-produk yang dihasilkan pada industri ini antara lain berupa kursi taman antik, *manhole cover*, tiang lampu antik, *grill* tangkapan air, dan masih banyak lagi. Dalam proses pembuatan produknya, PT. Mega Jaya Logam menggunakan mesin tanur induksi untuk meleburkan logam yang kemudian akan diikuti tahapan penuangan logam panas dalam cetakan. Pada bagian pencetakan pernah didapati kecelakaan kerja yang dimana kecelakaan ini lebih tinggi dari beberapa departemen yang ada pada PT. Mega Jaya Logam seperti terkena serpihan logam & terkena percikan logam panas yang berdampak terhadap para pekerja. Tujuan dari penelitian ini untuk mengetahui faktor penyebab kecelakaan serta mencari potensi dan risiko yang didapat menggunakan metode *Job Safety Analysis* (JSA) lalu menganalisis serta mencocokkan potensi bahaya yang didapat dengan beberapa faktor yang membuat para pekerja mendapati kecelakaan kerja yang dicari menggunakan *Fault Tree Analysis* (FTA) yang kemudian diberikan usulan bagaimana upaya pengendalian dengan metode agar meminimalisir kecelakaan kerja di masa mendatang.

Kata Kunci: Kecelakaan Kerja, Pengecoran Logam, *Job Safety Analysis*, *Fault Tree Analysis*

PROPOSAL FOR IMPROVEMENT OF WORK ACCIDENTS IN THE MOLDING PROCESS OF PT MEGA JAYA METAL USING JSA AND FTA

ABSTRACT

PT Mega Jaya Logam is a manufacturing company that specializes in metal casting and machining. Antique garden chairs, manhole covers, antique light posts, water catchment grills, and other items are manufactured in this business. PT Mega Jaya Logam manufactures its products using an induction furnace equipment to melt the metal, which is then followed by the step of putting hot metal into the mold. In the molding department, work accidents have been found which are higher than several departments at PT Mega Jaya Logam such as being hit by metal chips & being exposed to hot metal splashes which have an impact on workers. The goal of this study is to identify the factors that cause accidents and look for potential and risks obtained using the Job Safety Analysis (JSA) method, and then analyze and match the potential hazards obtained with several factors that cause workers to have work accidents that are sought using Fault Tree Analysis (FTA), which are then given proposals on how to control efforts with methods to minimize future work accidents.

Keywords: Work Accidents, Metal Casting, Job Safety Analysis, Fault Tree Analysis

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