IDENTIFIKASI POTENSI BAHAYA PADA PROYEK HEAD STOCK RDMP (*REFINERY DEVELOPMENT MASTER PLAN*) MENGGUNAKAN METODE HAZARD IDENTIFICATION RISK ASSESSMENT AND RISK CONTROL (HIRARC) DI FABRIKASI PT. SWADAYA GRAHA (SEMEN INDONESIA GROUP)

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ABSTRAK

Keselamatan dan kesehatan kerja mendorong perusahaan untuk menciptakan lingkungan kerja yg aman karena keselamatan dan kesehatan kerja merupakan segala upaya pengendalian potensi bahaya demi melindungi keselamatan dan kesehatan pekerja di lingkungan kerja. PT. Swadaya Graha (Semen Indonesia Group) merupakan anak perusahaan dari PT. Semen Indonesia, yang bergerak dalam bidang fabrikasi baja. Berdasarkan survei pada bagian workshop PT. Swadaya Graha sedang mengerjakan lebih dari 10 proyek dengan keterangan *On-progress*. Pemilihan proyek yang akan di teliti adalah proyek *head stock* RDMP (*Refinery Development Master Plan)*. Alasan pemilihan pada proyek *head stock* RDMP karena proyek tersebut berpotensi bahaya terhadap pekerja. Secara garis besar terjadinya kecelakaan kerja disebabkan oleh dua faktor yaitu pekerja tidak mematuhi aturan keselamatan kerja dan keadaan lingkungan kerja yang tidak aman. Untuk meminimalisir angka kecelakaan kerja dapat melakukan proses mengidentifikasi potensi bahaya, penilaian risiko dan meminimalisir risiko yang ada di proyek *head stock* RDMP dengan menggunakan metode yang tepat. Salah satu metode untuk mengidentifikasi potensi bahaya kecelakaan kerja tersebut yaitu metode *Hazard Identification and Risk Assessment* (HIRARC). Berdasarkan hasil yang diperoleh terdapat 20 aktivitas kerja, 31 sumber bahaya, 41 bahaya dan risiko. Penilaian risiko dengan nilai rendah 8 risiko, sedang 8 risiko tinggi 24 risiko dan sangat tinggi 1 risiko. Pengendalian risiko menggunakan *Hirarc of control* APD-Administrasi-Rekayasa *Engineering*-Substitusi, beberapa pengendalian ada yang belum terpenuhi dan ada yang tidak terpenuhi.

Kata Kunci: Keselamatan dan Kesehatan Kerja, Potensi Bahaya, HIRARC

IDENTIFICATION OF POTENTIAL HAZARDS IN THE PROJECT HEAD STOCK RDMP (REFINERY DEVELOPMENT MASTER PLAN) USING HAZARD IDENTIFICATION RISK ASSESSMENT AND RISK CONTROL (HIRARC) METHOD IN THE FABRICATION PT. SWADAYA GRAHA (SEMEN INDONESIA GROUP)

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ABSTRACT

Occupational Health and Safety encourages companies to create a safe work environment because Occupational Health and Safety is all efforts to control potential hazards in order to protect the safety and health of workers in the work environment. PT. Swadaya Graha (Semen Indonesia Group) is a subsidiary of PT. Semen Indonesia, which is engaged in steel fabrication. Based on the survey at the workshop of PT. Swadaya Graha is working on more than 10 projects with On-progress information. The project selection that will be examined is the Head Stock RDMP (Refinery Development Master Plan) project. The reason for choosing the Head Stock RDMP project is because the project has the potential to be dangerous to workers. Broadly speaking, the occurrence of work accidents is caused by two factors, namely workers who do not comply with work safety rules and unsafe work conditions. To minimize the number of work accidents, the process of identifying potential hazards, risk assessment and minimizing the risks that exist in the Head Stock RDMP project can be carried out using the right method. One of the methods to identify the potential hazards of work accidents is the Hazard Identification and Risk Assessment (HIRARC) method. Based on the results obtained, there are 20 work activities, 31 sources of danger, 41 hazards and risks. Risk assessment with a low score of 8 risk, medium 8 high risk 24 risk and 1 very high risk. Risk control uses Hirarc of control APD-Administration-Engineering Engineering-Substitution, some controls have not been fulfilled and some have not been fulfilled.

Keywords: Occupational Health and Safety, Potential Hazards, HIRARC