

## **RANCANG BANGUN PROTOTIPE PERINGATAN AMBANG BATAS AMAN LINGKUNGAN KERJA SEBAGAI PENDUKUNG KESEHATAN KESELAMATAN KERJA (K3) KARYAWAN**

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### **ABSTRAK**

Peranan keselamatan kerja di tempat kerja sebagai wujud keberhasilan perusahaan dengan mengikuti dan mentaati ketentuan dan undang-undang Kesehatan dan Keselamatan Kerja (K3) serta peraturannya. Perusahaan dapat dikatakan berhasil apabila produk yang dihasilkan perusahaan semakin baik, berkualitas, dan kerugian yang diperoleh perusahaan semakin kecil (zero accident) (Siregars, 2005). Penelitian ini dilakukan di PT. Krakatau Steel. Suhu standar yang diterapkan pada lantai produksi PT. Krakatau Steel adalah 29,4 C. Rata-rata data temperatur yang didapat menunjukkan berada dibawah standar yaitu: Area Furnace (31,6 C), Sizing Press (29,8 C), Roughing (30,3 C), Finishing (30,3 C), Coiler (29,9 C), Area Pengikat Coiler (31,9 C), Skin pass mill (29,2 C), Area Pompa WTP (28,3 C), Area Boiler (28,9 C), Mekanik Shop (27,6 C), Shearing Line Area (28 C) dan RTS Area (28 C). Dari masing-masing data temperatur di lantai produksi, didapat data tempetaratur terendah sebesar 27 C dan temperatur tertinggi sebesar 32 C. Yang kemudian prototipe di ujicoba dan dari data yang didapat, dilakukan analisis terhadap standar perusahaan. Dari hasil uji coba alat yang telah dilakukan, menunjukkan bahwa 70% data yang didapat mendekati temperatur standar perusahaan yaitu 29,4 C. Dan dari implementasi didapat bahwa karyawan dapat mengetahui tingkat batasan aman temperatur lingkungan kerja dan mengetahui tingkat bahaya yang diakibatkan dari temperatur yang terpapar langsung ke tubuh. Sehingga diharapkan karyawan dapat lebih berhati-hati lagi pada saat bekerja dan sadar betul pentingnya arti kesehatan.

Kata Kunci : Kesehatan dan Keselamatan Kerja, Temperatur, Prototipe.

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## **DEVELOPMENT OF A PROTOTYPE WARNING LIMIT VALUE AS A SAFE WORKING ENVIRONMENT SAFETY HEALTHY SUPPORT (K3) OF EMPLOYEES**

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### **ABSTRACT**

The role of safety in the workplace as a manifestation of the company's success to follow and obey the rules and laws Health and Safety (K3) and rules. The company can be said to be successful if the resulting company's products better, quality, and loss of acquired smaller firms (zero accident) (Siregars, 2005). Peneletian is done in PT. Krakatau Steel. Temperature standards are applied to the production floor PT. Krakatau Steel is 29.4 C. Average temperature data obtained showed falls below the standard are: Furnace Area (31.6 C), Sizing Press (29.8 C), Roughing (30.3 C), Finishing (30.3 C), Coiler (29 , 9 C), Area binder Coiler (31.9 C), Skin pass mill (29.2 C), WTP Pump Area (28.3 C), Boiler Area (28.9 C), Mechanical Shop (27.6 C), Shearing Line Area (28 C) and RTS Area (28 C). From each temperature data on the production floor, the lowest tempetaratur the data obtained at 27 C and the highest temperature was 32 C. Which then prototype in testing and of the data obtained, an analysis of the company's standards. From the test tool that has been done, showing that 70% of the data obtained near the company's standard temperature 29.4 C. And of implementation found that the employees can determine the level of safe temperature limits the working environment and determine the level of danger resulting from direct exposure to the temperature of the body. It is expected that employees can more carefully again at work and was well aware of the importance of health.

Keywords: Healthy and Safety Work , Temperature, Prototype.

Keyword : Kesehatan dan Keselamatan Kerja, Temperatur, Prototipe.