

**INTEGRATION OF RISK CONTROL MEASURES IN SAFETY
MANAGEMENT TO REDUCE PROPERTY LOSSES AT PT. KALIMANTAN
PRIMA PERSADA SITE INDE**

By

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STATEMENT BY THE AUTHOR

I certify that this thesis is entirely the outcome of my own independent work. To the best of my awareness, it does not include material that has been previously submitted, published, or authored by others, unless explicitly referenced and credited. Additionally, no section of this thesis has been used to fulfill academic requirements at any other educational institution.


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ABSTRACT

INTEGRATION OF RISK CONTROL MEASURES IN SAFETY MANAGEMENT
TO REDUCE PROPERTY LOSSES AT PT. KALIMANTAN PRIMA PERSADA
SITE INDE

By

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Workplace safety is a crucial aspect of the mining industry, which carries a high risk of work-related accidents. PT Kalimantan Prima Persada Site INDE, as a manpower service provider for PT Indexim Coalindo, faces significant challenges in maintaining contract sustainability due to suboptimal safety performance. This study focuses on analyzing and improving workplace safety through a Risk Analysis approach. Data were collected from workplace accident reports during the period of 2022–2024. Each incident was analyzed using the HIRADC (Hazard Identification, Risk Assessment, and Determining Control) method to detect potential hazards and assess risk levels. Further analysis was conducted using the 5W+1H technique and the Swiss Cheese Model to identify the root causes of accidents and design more effective preventive measures. The results of the study reveal several key contributing factors to incidents, including human error, inappropriate work methods, weak supervision, and organizational influences. This study offers actionable outcomes such as enhancing awareness of workplace safety, reinforcing the implementation of standard procedures and operational regulations, and encouraging the adoption of technological solutions within safety management practices.

Keywords: Workplace Safety, HIRADC, Risk Analysis, Swiss Cheese Model, Mining Industry.

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DEDICATION

M. Ageng Pangestu

This thesis is dedicated to:

My Dearest Family,

Whose unwavering support, endless encouragement, and unconditional love have been the cornerstone of every success I've achieved. Your trust and sacrifices have carried me to this point.

Advisors and Mentors,

For the invaluable guidance, insight, and patience you have offered throughout this journey. Your knowledge has been essential in shaping this thesis.

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For the opportunity to conduct this research and the resources made available to me. Your collaboration and support were crucial in making this study possible.

To Those Who Have Faith in Me,

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With sincere gratitude to all who have supported and inspired me to pursue and realize this dream..

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I hope that this work can contribute meaningfully to the advancement of knowledge and the development of the mining industry in the future.

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