

## Evaluation of the Safety and Health Management System (K3) with Audit Method at the PT. Lematang Coal Lestari

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### *Abstract*

*The purpose of this study is to evaluate the safety and health management system (K3) with audit method at the PT. Lematang Coal Lestari. The results of the study were. PT . Sustainable Coal Lematang been referring to government regulations regarding occupational safety and health for mining . Where have conducted hazard identification and risk jobs , the manufacturing procedures of work , using a compliance officer in the execution of the system 's salvation and health management in its operations. PT . Sustainable Coal Lematang not have K3 Management System Manual specifically , but rather refers to government regulations , while the procedure is already held on implementation - execution of the work which is expected to reduce and avoid accidents or occupational diseases.*

**Keywords :** *System , Management , Occupational Safety and Health*

## 1 INTRODUCTION

Occupational Health Efforts are harmonizing efforts between work capacity, workload and work environment so that each worker can work in a healthy manner without endangering themselves and other workers around him, in order to obtain optimum work productivity. Work capacity, workload and work environment are the three main components in occupational health, in which interactive and harmonious relationship among these three components will result in good health and optimal.

Good working capacity as occupational health and nutritional status of good work and excellent physical abilities required so a worker can do the job well. Conditions or the level of workers' health as ( capital ) initial person to do the job should also receive attention. Initial conditions for employment can be affected by workplace conditions, nutrition and other work.

Health problems in workers can be caused by factors related to work or not work-related. Thus it can be said that the health status of the workers affected not only by the health hazards in the workplace and work environment but also by factors of occupational health

services, workplace behavior and other factors. In anticipation of health disorders for workers, the essential first step is the recognition / identification of hazards that could arise and evaluated, then do control.

As a company engaged in the mining field. Sustainable Coal Lematang certainly have the means and facilities and equipment pre - use equipment if it is not according to the procedure may endanger the safety of employees and other people who are around. For those reasons, the procedures have to run the Occupational Safety and Health. So as to prevent the occurrence of accidents in the workplace employees. Conditions suggests that there are some employees that his job is not to use personal protective equipment ( PPE ) that endanger their own. There is a fire extinguisher inspection when not functioning as it should. Lack of control of the management regarding employee safety while doing a job. Based on this background, the authors are interested in taking the title of " Evaluation of the Safety and Health Management System (K3) with audit method at the PT. Lematang Sustainable Coal "

The identification problem is as follows :

1. As a company engaged in the mining field . Sustainable Coal Lematang certainly have the means and facilities and equipment pre - use equipment if it is not according to the procedure may endanger the safety of employees and other people who are around.
2. Conditions suggests that there are some employees that his job is not to use personal protective equipment ( PPE ) that endanger their own.
3. There is a fire extinguisher inspection when not functioning as it should.
4. Lack of control of the management regarding employee safety while doing a job.

The problem to be solved in this study are as follows : How Health and Safety management system (K3 ) by the method of auditing at. Lematang Sustainable Coal . ?

The purpose of this study was to evaluate the safety and health management system (K3 ) with audit method at the PT . Lematang Sustainable Coal.

The expected benefits of this research are :

1. As input and information for the PT . Sustainable Coal Lematang in improving and developing the Occupational Safety and Health Management .
2. Used as input for the general public , academic or explore science in management .
3. Useful as advanced materials research by the same research object.

## 1.1 Audit

In Act No. 1 of 1970 on occupational safety said that that every labor is entitled to protection of their safety in doing work for the well-being and improve production as well as national productivity . Also mentioned " therefore it is necessary to hold everything in its power to foster norms of labor protection " so the need for the development of safety systems and kesehatanmanajemn work . Also in Act No. . 13 Year 2003 concerning Manpower said that every company should implement safety and health management system shall be integrated into the company's management system . In the management system it is necessary to supervise the implementation . One form of control is an audit of the existing system.

## 1.2 Management Systems Occupational Health and Safety

Decree No. 05 of 2005 concerning Management System Occupational Health and Safety issued pursuant to Act No. 14 of 1969 on Basic Provisions Regarding Labor and Law No. 1 of 1970 on Occupational Safety and Law no. 13 Year 2003 concerning Manpower said that every company should implement safety and health management system shall be integrated into the company's management system. In Decree No. 05 of 2005 of the Safety Management System and Occupational Health, hereinafter referred Management System K3 is part of the overall management system which includes organizational structure, planning, responsibility, implementation, procedures, processes and resources needed for the development, implementation, achievement, assessment and maintenance of safety and health policies in order to control the risks associated with work activities in order to create a workplace that is safe, efficient and productive.

Furthermore, according to Decree No. 05 of 2005 goals and objectives K3 Management System is to create a system of safety and health in the workplace by involving elements of management, labor, working conditions and environment are integrated in order to prevent and reduce accidents and occupational diseases as well as the creation of workplace safe, efficient, and productive.

## 1.3 Occupational Health and Safety

Understanding Health and Safety in the workplace can be 3 is based on the philosophy , and practical keilumuan (Somad : 201).

### 1. Philosophy.

A thought and effort to ensure the integrity and perfection of both physical and spiritual labor in particular and people in general , and cultural work towards a just and prosperous society .

### 2. Scientific.

Science and its application in an effort to prevent possible accidents and occupational diseases .

### 3. Practical.

Safeguards that labor is always in a state of safe and healthy during the work forged work , and doing work in the workplace as well as sourcing and production process can be safe and efficient in its use.

Occupational Health and Safety according to OHSAS 18001 is a condition in a healthy and safe work well for workers, companies and communities and the environment around the workplace ( Ramli ; 2010).

There are several terms in the occupational health and safety management including (Ridley : 2008).

1. Potential Hazards ( Hazard ), a condition that allows / can cause accidents / losses in the form of injury, illness, damage / ability to execute predefined functions.
2. Level of Danger ( Danger ) is the expression relative to the potential danger. Dangerous condition because it has been done a few precautions.

3. Risk ( Risk ) states the possibility of accidents / losses on a specific time period or a particular operating cycle .
4. Incident, is undesirable events that can and have been in contact with a source of energy exceeds the threshold value or the structure of the body.
5. Accident, an event that is unexpected and undesirable initially disrupting the process that is set up from an activity and may cause either a loss or a loss of life and property.
6. Secure / safe. There is no possibility of catastrophic condition ( free of hazards ).
7. Unsafe actions , is suatau violation of the safety procedures that provide opportunities to the occurrence of accidents.
8. Unsafe circumstances, is a physical condition or dangerous situation that may be a direct result of the accident. Prevention of accidents is a science and an art, because it involves human attitudes and behavior issues, technical issues such as equipment and machinery, and environmental issues. Supervision is defined as a user or business that is the correction of the problem. Accident prevention is an important factor in every workplace to ensure K3 and prevent losses.

Accident prevention is an integrated program of coordination of various activities , targeted surveillance based on " attitude , knowledge and abilities " There are some experts who developed the theory of accident prevention as follows :

The purpose of Occupational Safety and Health Program .Sedarmayanti( 1996:109 ) argues that the purpose of safety and health is : " Ensuring circumstances , wholeness and perfection of both body and spirit as well as the human and cultural works that focused on the welfare of society in general and men in particular " . Furthermore Sedarmayanti( 1996:109-110 ) argues Sarasan to be achieved by the occupational safety and health programs are:

1. The growing motivation to work safely.
2. The creation of working conditions orderly, safe and fun.
3. Reduce the accident rate in the office environment.
4. The growing awareness of the significance of safety in the office environment.
5. Increasing labor productivity.

The purpose of occupational safety and health programs are cited and operational guide P2K3 RI Department of Labor ( 1999:1 ) is : " In order that all labor and laimya people who are at work are protected for his safety . Each source can be used and production safely and efficiently used and the production process runs smoothly"

## **2 RESEARCH METHODOLOGY**

### **2.1 Research Design**

This study is a qualitative study , the research approach that emphasizes the analysis of processes and inductive inference dededuktif as well as an analysis of the dynamics of the relationship between the observed phenomena using scientific logi.

## 2.2 Data Collection Method

Pengeumpulan methods research data used in data collection for this thesis is as follows :

1. Literature study.

The research was done by finding and collecting data, resources and materials obtained from books, literature, articles.

2. Field studies.

This study was conducted to obtain data directly from the object of study.

3. Interview.

Conduct a question and answer with the informant to obtain the information and data required. As for the informants of this study is leadership, operational officers and staff.

4. Observation.

Direct observation on the environment and the implementation of enterprise systems on K3.

## 2.3 Informant

The key informants in this study are :

1. Operational Manager (1)
2. Staff K3 (2 people)
3. Employees (3)

## 2.4 Method Of Analysis

The method used is descriptive qualitative method . To analyze the audit will be carried out on workplace safety and health management which is based on Labor CANDY Number : PER.05/MEN/1996 about Kselamatan Management System and Occupational Health include :

1. Planning Strategic Plan for Safety and Health at Work
2. K3 Management System Manual
3. Control Design
4. Work Systems

### 3 RESULT AND DISCUSSION

PT. Lematang Sustainable Coal Mining activities have been referring to this we always refer to government regulations regarding occupational safety and health in mines. It also has to identify the hazards and risks in each unit of work, identification of hazards and risks is performed by our expert personnel K3 or who already have a certificate K3 dibatu by personnel of the unit concerned. Hazard identification and risk planning strategies Occupational Health and Safety. Planning Occupational Health and Safety strategy . The company also conducts investigations against accidents there and we mencatatatnyasebaga basis for planning subsequent Occupational Safety and Health.

PT . Sustainable Coal Lematang not have K3 Management System Manual specifically, but rather refers to government regulations. ArauSedangkankan for the purpose of determining the target K3 yet written. The procedure is already held on implementation - execution of the work which is expected to reduce and avoid accidents or occupational diseases. The results of field observations indicate that the dissemination of information already dilakuka Occupational Health and Safety.

PT. Sustainable Coal Lematang not have a documented procedure that considers the hazard identification and risk assessment is carried out at the planning stage or redesign but look at aspects of the risks and dangers that we have documented. The next stage of planning is already made in the procedures and work instructions product use and operation of the means of production . Further verification by officers who bekompeten.

In identifying potential hazards and have assessed the risks arising and the work process has been used a competent officer . Risk management is done at the level of control and work procedures have been documented and if necessary apply a system of " work permit " for tasks that are at high risk. This work procedures safely managed so that all risks can teridentfiksi and documented In the legislation of each worker in his work where the work is at risk of accidents and occupational diseases in the compulsory use of personal protective equipment and the company is obliged to provide it. PT. Sustainable Coal Lematang pretext requires each worker using the PPE and other safety equipment in the supply of mining activities . The following will show in the pictures that show the use of PPE and other safety apparatus at PT. Lematang Sustainable Coal.

From these results indicate that PT. Lematang Sustainable Coal has attempted untu K3 implement management systems in their operations, but there are still many shortcomings such as the lack of manual K3 which form the guidelines in implementing development stragtegi K3, other than that the PT. Sustainable Coal Lematang still need to further expand the socialization of K3 and tightened, thereby reducing and eliminating accidents and occupational diseases.

K3 Management System is part of the overall management system which includes organizational structure , planning , responsibility , implementation , procedures , processes and resources needed for the development , implementation , achievement , assessment and maintenance of safety and health policies in order to control the risks associated with work activities in order to create a workplace that is safe, efficient and productive . The purpose of the K3 is Ensures management system state , wholeness and perfection of both body and spirit as well as the human and cultural works that focused on the welfare of society in general and men in particular.

Specifically the objectives are :

1. That each employee received assurances of safety and health both physically, socially and psychologically.
2. In order that all equipment and tools used sebaiknya and effectively as possible.
3. Maintained so that all production safety.
4. In order to guarantee the maintenance and improvement of the nutritional health of employees.
5. In order to increase the excitement, harmony work and work participation.
6. To reduce risk and health problems caused by environmental or working conditions.
7. In order that all employees feel safe and secure in work.

By running the system 's salvation and health management is expected PT . Sustainable Coal Lematang can operate effectively and efficiently because it reduces the factors that can interfere with the operations of the company.

When compared with previous research, this study is kauntitatif is more kaulitatif so it can dig deeper into the phenomenon that occurs in the object under study. In penelitaikuantitatifcan not see the detailed aspects of occupational safety and health audits tetpi with more qualitative methods may know. Programs intended occupational safety and health for help protect and maintain the physical and mental condition of the workers. In addition to the goals and occupational health and safety programs, objectives to be achieved through the efforts of occupational health are :

1. Maintain and improve the health of workers in all public work employment as high as better physical, mental and social well-being.
2. Preventing the onset of disorders caused by working people work environment conditions.
3. Provide jobs and protect workers in pekeijaannya and kemnngkinan harm caused by factors that endanger health.
4. Placing and maintaining pekeijaan workers in an environment that suits employees physical and psychological abilities.

#### 4 CONCLUSION

Based on the research results and the discussion above can be summarized as follows :

1. PT. Sustainable Coal Lematang been referring to government regulations regarding occupational safety and health for mining . Where have conducted hazard identification and risk jobs, the manufacturing procedures of work, using a compliance officer in the execution of the system 's salvation and health management in its operations.
2. PT. Sustainable Coal Lematang not have K3 Management System Manual specifically, but rather refers to government regulations, while the procedure is already held on implementation - execution of the work which is expected to reduce and avoid accidents or occupational diseases.

3. PT. Sustainable Coal Lematang not have a documented procedure that considers the hazard identification and risk assessment is carried out at the planning stage or redesign but look at aspects of the risks and dangers that we have documented.
4. PT. Lematang Sustainable Coal has been trying to implement management systems K3 in its operations but there are still many shortcomings.

#### 4.1 Suggestion

Based on the research results and the discussion above , it can be suggested as follows :

1. PT. Sustainable Coal Lematang should membuat manual or instructions regarding the implementation of occupational safety and health which form the guidelines in implementing development strategi K3.
2. PT. Sustainable Coal Lematang still need to further expand the socialization of K3 and tightened , thereby reducing and eliminating accidents and occupational diseases.
3. PT. Sustainable Coal Lematang should make a documented procedure that considers the hazard identification and risk assessment carried out at the stage of planning or redesign.

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