

**NON CONFORMITY TO THE OCCUPATIONAL HEALTH AND SAFETY ASSESSMENT SPECIFICATION IN THE MANAGEMENT OF AN ALUMINIUM MANUFACTURING PLANT IN PHRA NAKHON SI AYUTTHAYA**

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**ABSTRACT**

This study was a descriptive research that aimed to compare the requirements of OHSAS 18001 to occupational health and safety operation of an aluminum manufacturing plant in Phra Nakhon Si Ayutthaya Province, to identify any inconsistency between the requirements of OHSAS 18001 and the occupational health and safety operation. A checklist was created according to the requirement of OHSAS 18001 as an instrument in evaluating the consistency in the company's occupational health and safety operation.

Findings revealed that 33% of the company's operations according to 40 topics from 122 topics were inconsistent with the requirements. The inconsistency was found in the following regulations. Requirement 4.2 Safety Policy: there was no schedule for policy and regulation revision. Requirement 4.3.1 Hazard Identification, Risk Assessment and Control Measures: there was no action on hazard identification and risk assessment. Requirement 4.3.3 Objective and Project: there was no schedule for objective and purpose revision. Requirement 4.4.1 Resources, Roles, Responsibilities, and Authority: there was no designation of OHSMR roles and responsibilities for all staff. Requirement 4.4.2 Capability, Training, and Awareness: there was no organization training on hazards and risks for each department, as well as the training on the caution for the visitors. Requirement 4.4.4 Documentation: there was no safety manual to identify the scope and document structure. Requirement 4.5.3 Incident, Nonconformity Investigation, Correction and Prevention: there was no procedure for correction in occupational health and safety system and no corrective and preventive measures for complaints or suggestions regarding occupational health and safety. Requirement 4.5.5 Internal Audit: there was no internal audit regarding occupational health and safety. Requirement 4.6 Executive Revision: there was no scheduled topics for revision such as assessment result, participation and consultation results, revision of objectives, purpose, communication, complaints, and accident records.

From the findings, the guidelines, for the improvement of the occupational health and safety operations to be consistent with the OHSAS 18001, were classified into three stages. The first stage was the arrangement step: to arrange the procedure for hazard identification and risk assessment, procedure for correction of occupational health and safety system, procedure for internal audit and Safety manual. Moreover, this stage included the training on OHSAS 18001 regulations, hazard identification and risk assessment, as well as the training on the risk in organization for visitors. The second stage was the revision and proceeding step: to set the revision of policy, objective, purpose, and plan, the revision of executives, the designation of OHSMR, and set the responsibility for occupational health and safety of all staff. Further, risk assessment was included in this stage. The third stage was the improvement step: to develop and revise the occupational health and safety plan to be consistent with the risk assessment result.

**KEY WORDS: OHSAS 18001/ ALUMINIUM MANUFACTURING/ NON-CONFORMITY/ OCCUPATIONAL HEALTH AND SAFETY/ CONSISTENT**

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