ABSTRACT

ANALYSIS AND DESIGN OF INFORMATION TECHNOLOGY MANAGEMENT GOVERNANCE DOMAIN APO COBIT 5 IN COAL AND GEOTHERMAL MINERAL RESOURCES CENTER

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As part of a State-Owned Enterprise, the Head Office for Mineral, Coal and Geothermal Data Sources has governance and information technology(PSDMBP). Based on the results of the evaluation conducted by the Ministry of Energy and Mineral Resources, the index value is 1. This indicates that the quality of the implementation of Governance and Technology at the Coal and Geothermal Mineral Resources Center is still below the target value that should be achieved, namely 3. IT governance at the Coal and Geothermal Mineral Resource Center using the COBIT 5 framework can increase the index value of the Coal and Geothermal Mineral Resource Center. Several stages are used in the design, namely, an assessment of compliance with the regulations used, strategic adjustments, and a risk assessment to determine the priority process for the COBIT 5 APO domain that will be used. From this research, it will produce 3 recommendation aspects, namely People, Process and Technology. Each of these aspects will produce design recommendations which will help in realizing the efficiency and effectiveness of an organization. In the people aspect, it will produce design recommendations in the form of organizational structure, job descriptions and competencies, then the process aspect will produce recommendations in the form of policies, SOPs, and work instructions, and in the technology aspect it will produce recommendations in the form of software application tools. Of the three recommendations, it will affect the maturity level of the index at the Center for Coal and Geothermal Mineral Resources.

Keywords: Information Technology (IT), Governance, COBIT 5, APO, PSDMBP.