ABSTRACT

ANALYSIS OF INFORMATION SECURITY PROCESS DESIGN BASED ON ISO 27001: 2022 FRAMEWORK (CASE STUDY: PT. NUSANTARA TURBIN DAN PROPULSI)

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Information security has a crucial value for companies because information is one of the most valuable assets in running business operations. As a company engaged in the MRO (maintenance, repair and overhaul) industry of aircraft engines, PT Nusantara Turbine and Propulsion has been successful in handling the maintenance of thousands of aircraft engines in various countries around the world, therefore the implementation of an information security management system is crucial so that companies can avoid leaks or threats that can threaten company information. For MRO industry companies, implementing the ISO / IEC 27001: 2022 standard which is the latest version of ISO / IEC 27001: 2013 can provide many benefits such as protecting customer data, improving reputation and helping maintain compliance with applicable regulations and legal requirements. The purpose of this research is to assess the condition of the implementation of the information security management system that has been implemented and that has not been implemented and provide a gap assessment at PT. NTP against the ISO / IEC 27001: 2022 standard in the main clauses, namely clauses 4 to clause 10 and annex controls in the framework, then make proposed recommendations on the gaps found and will be given recommendations for designing aspects of people, process and technology which include certification options, special interest group options, additional roles and responsibilities, procedures, policies and device selection. The results of this study can be used as a reference to improve information security efficiency and provide some recommendations if the company wants to apply for ISO / IEC 27001: 2022 certification.

Keywords: Information Security Management System, IT Control, ISO 27001:2022