

## **ABSTRACT**

PT. XYZ is a leading independent systems integrator company in Indonesia with comprehensive Engineering expertise in Industrial Automation, Enterprise Integration and Strategic Manufacturing Solutions. This study discusses the analysis of risk management using ISO 31000:2018 control at PT XYZ. Risk management analysis is carried out to minimize risks in the Engineering & Service division. This study analyzes the assets in the Engineering & Service division at PT XYZ and identifies the associated risks. The results of the analysis reveal that there are 10 assets with a total of 21 risks. In identifying there are 5 risks with a high level of risk, 11 risks with a moderate level of risk, and 5 risks with a low level of risk. Risk mitigation measures are implemented to address these risks. Furthermore, these risks are assessed according to the guidelines of the NIST standard 800-53 to determine the appropriate control measures. This research provides insight into the distribution of risk in the Engineering & Service division of PT XYZ and the control strategies that have been adopted to reduce the impact of risks that may occur.

**Key Word:** ISO 31000:2018, NIST 800-53 control, Risk management