Application of Risk Management In Shipyards Based SNI IEC/ISO 31010:2016 on New Shipbuilding Projects

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Abstract: Shipbuilding in the shipyard needs to be analyzed for risk management to minimize and take action to avoid risk. Risk management techniques in SNI IEC/ISO 31010:2016, namely the consequence and probability matrix. This study aims to identify hazards in new construction works and determine the level of consequences and the probability of a risk arising. This research’s benefit is knowing the danger and risk level category. This study uses qualitative research and data collection techniques through in-depth interviews or direct observation in the field. The results showed 14 hazards from 3 jobs: plate cutting, welding and lifting. The risk analysis scale shows a very high risk (priority I). The high risk (priority II), medium-high risk (priority III), low risk (priority IV) and shallow risk (priority V) in new construction works at PT. XY.

Keywords: Shipbuilding analysis; Risk management; SNI IEC/ISO 31010:2016