

Analisa risiko kejadian berbahaya pada proyek pembangkit listrik tenaga uap dan gas untuk meningkatkan kinerja keselamatan kerja biaya dan waktu = The risk analysis of hazardous events in combined cycle power plant project to improve work safety cost and time performances / Meilia Evita

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Abstrak

[Dalam pelaksanaan proyek terdapat kemungkinan timbulnya sejumlah kejadian berbahaya yang jika tidak dilakukan pengelolaan yang baik akan berpengaruh terhadap kinerja proyek. Penelitian ini bertujuan untuk memperoleh strategi pengelolaan risiko kejadian berbahaya pada pelaksanaan proyek untuk meningkatkan kinerja proyek yang meliputi kinerja keselamatan kerja, biaya, dan waktu dengan objek penelitian adalah proyek pembangunan pembangkit listrik tenaga uap dan gas di Indonesia. Penelitian dilakukan dengan mengumpulkan data melalui studi literatur, survei kuesioner, dan wawancara. Analisis data dilakukan dengan mengidentifikasi penyebab dan dampak bahaya pada proyek yang berpengaruh pada kinerja keselamatan kerja, biaya, dan waktu berbasis manajemen risiko. Hasil penelitian berupa kejadian berbahaya yang paling berisiko terhadap kinerja keselamatan kerja, biaya, dan waktu yang menunjukkan bahwa kejadian berbahaya yang paling berdampak terhadap kinerja keselamatan kerja adalah jatuh dari ketinggian sebesar 27,41% dan kejadian berbahaya yang paling berdampak pada kinerja biaya sebesar 24,32% dan kinerja waktu sebesar 22,65% adalah ledakan boiler. Produk akhir dari penelitian ini adalah strategi untuk pengelolaan penyebab kejadian berbahaya paling berisiko untuk meningkatkan kinerja keselamatan kerja, biaya dan waktu; Project Construction unavoidably had emergence of some hazardous events where it would affect project performance if it was not managed well and carefully. This research was aimed to obtain management strategy of hazardous events at some projects, covering Combined Cycle Power Plant in Indonesia, so that how big hazardous-event effect on project performance were able to be determined as cost, time, and work-safety performances. Collecting study of literature, questionnaire, and interview were implemented to support this research. Analysis of the data was carried out by identifying hazardous causes and impacts in project construction taking effect on performance of work safety, cost, and time according to risk management. The result showed that fall from high construction is main effect to work safety performance (27,1%) and boiler explosion is main effect to cost (24,32%) and time performances (22,65%) . The final product of this research are strategy to manage of the most risk causes hazardous event to improve the safety, cost and time performances, Project Construction unavoidably had emergence of some hazardous events where it would affect project performance if it was not managed well and carefully. This research was aimed to obtain management strategy of hazardous events at some projects, covering Combined Cycle Power Plant in Indonesia, so that how big hazardous-event effect on project performance were able to be determined as cost, time, and work-safety performances. Collecting study of literature, questionnaire, and interview were implemented to support this research. Analysis of the data was carried out by identifying hazardous causes and impacts in project construction taking effect on performance of work safety, cost, and time according to risk management. The result showed that fall from high construction is main effect to work safety performance (27,1%) and boiler explosion is main effect to cost (24,32%) and time

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