

Penerapan Metode Risk Based Inspection Untuk Penentuan Interval Inspeksi dan Pengujian Katup Pengaman di Industri Minyak dan Gas Bumi = Application of Risk Based Inspection for Determining Interval Inspection on Pressure Safety Valves in Oil and Gas Industry

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Abstrak

Tesis ini membahas perbandingan antara kebijakan Pemerintah dengan metode *Risk Based Inspection*, dalam menetapkan interval inspeksi pengujian pada katup pengaman, untuk menjamin keandalan. Penelitian adalah penelitian kuantitatif dengan desain *one group pre-test post test*. Hasil penelitian mendapatkan bahwa terdapat perbedaan yang nyata antara interval inspeksi dan pengujian katup pengaman yang digunakan, dan kebijakan Pemerintah belum dapat menjamin keandalan dibandingkan metode RBI, sehingga disarankan untuk Pemerintah melakukan peninjauan terhadap kebijakan serta melakukan perumusan kebijakan berbasis bukti (*evidence-based policy*).

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This thesis addresses the comparison between Government policy and Risk Based Inspection methods, in establishing test inspection intervals on safety valves, to ensure reliability. Research is quantitative research with the design of one group pre-test post test. The results of the study found that there was a noticeable difference between the inspection intervals and the safety valve testing used, and the Government's policy could not guarantee reliability compared to the RBI method, so it was recommended that the Government conduct a review of the policy and formulate an evidence-based policy.