

## Pemeliharaan dan Perbaikan Transformator Daya di PT. Petrolab Services = Power Transformer Maintenance and Repair at PT. Petrolab Services

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### Abstrak

Transformator daya merupakan bagian penting dalam sistem ketenagalistrikan terutama di area tambang. Kegagalan transformator dapat menyebabkan kerugian materi, produksi, lingkungan, hingga korban nyawa. Diperlukan pengoperasian dan pemeliharaan yang tepat untuk menghindari kegagalan tersebut. Dalam melakukan pemeliharaan dan perbaikan transformator diperlukan pertimbangan aspek teknis dan non teknis. Aspek lingkungan, keselamatan kerja, manajemen proyek, hingga kode etik dan profesionalisme insinyur. Laporan keinsinyuran ini berisi tentang studi kasus kegagalan transformator di area tambang. Pada proyek ini diindikasikan bahwa transformator tersebut telah mengalami short circuit. Proyek pemeliharaan dan perbaikan ini telah memenuhi aspek profesionalisme, kode etik keinsinyuran, dan K3L. Segala pekerjaan dilakukan sesuai standar – standar keprofesian yang berlaku, mengikuti proses alur kebijakan K3 yang berlaku di internal perusahaan, limbah pekerjaan ditangani seusai peraturan yang berlaku, dan segala pekerjaan dikomunikasikan terhadap pihak – pihak terkait.

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Power transformers are an important part of the electricity system, especially in mining areas. Transformer failure can cause material, production, environmental losses and even loss of life. Proper operation and maintenance is required to avoid such failures. When carrying out maintenance and repair of transformers, technical and non-technical aspects are required to be considered. Environmental aspects, work safety, project management, to the code of ethics and professionalism of engineers. This engineering report contains case studies of transformer failures in mining areas. In this project it is indicated that the transformer has experienced a short circuit. This maintenance and repair project has fulfilled the aspects of professionalism, engineering code of ethics and K3L. All work is carried out in accordance with applicable professional standards, following the K3 policy flow process that applies internally to the company, work waste is handled in accordance with applicable regulations, and all work is communicated to related parties.