

## ABSTRACT

The application of LOTO as an energy control effort is one of the efforts in supporting the creation of a safe work environment for workers. The application of LOTO is intended to reduce the potential danger when an energy release occurs during the process of maintaining and repairing equipment and production machinery.

This research is descriptive with direct observation. The purpose of this research is to evaluate the application of LOTO in the Gas Turbine area of PT. XY Gresik based on OSHA 1910.147. This research is observational. The object under study, namely: the application of LOTO procedures, LOTO standard operating procedures (SOP), obstacles in the implementation of LOTO.

The results of this Research indicate that has not implemented LOTO properly according to OSHA 1910,147 in every implementation of the maintenance and repair work in the Gas Turbine area of PT. XY Gresik. With a percentage in the application of the LOTO procedure of 45.8%, for the application of the SOP received a percentage of 62.5%, and for the obstacles - obstacles to the application of the LOTO received a percentage of 72.2%. The application of energy controls procedure standart in the Gas Turbine area of PT. XY Gresik is still not done well, and the use of LOTO equipment is not according to OSHA 1910.147

The application of LOTO as an effort to control energy in the Gas Turbine area of PT. XY Gresik still needs improvement. The company is recommended to review the LOTO implementation procedure; LOTO equipment procurement, do the socialization about LOTO that can be through safety talk, safety breafing, and safety indunction, the company is required to conduct special LOTO training and refreshment training for all electrician technicians.

Keywords : *Lock Out Tag Out (LOTO)*, implementation of LOTO, *standart operasional procedure*

## ABSTRAK

Penerapan LOTO sebagai upaya pengendalian energi merupakan salah satu upaya dalam mendukung terciptanya lingkungan kerja yang aman bagi pekerja. Penerapan LOTO ditujukan untuk mengurangi potensi bahaya saat terjadinya *energy release* selama proses perawatan dan perbaikan peralatan dan mesin produksi.

Penelitian ini bersifat deskriptif dengan pengamatan secara langsung. Tujuan dilakukannya penelitian ini adalah untuk mengevaluasi penerapan LOTO di area *Gas Turbine* PT. XY Gresik berdasarkan OSHA 1910.147. Penelitian ini bersifat observasional. Objek yang diteliti, yaitu penerapan prosedur LOTO, standar operasional prosedur (SOP) LOTO, hambatan-hambatan dalam pelaksanaan LOTO.

Hasil penelitian ini menunjukkan bahwa perusahaan belum menerapkan LOTO dengan baik sesuai standart OSHA 1910.147 pada setiap pelaksanaan pekerjaan perawatan dan perbaikan di area *Gas Turbine* PT. XY Gresik. Dengan presentase dalam penerapan prosedur loto sebesar 45,8%, untuk penerapan SOP mendapat presentase 62,5%, dan untuk hambatan – hambatan penerapan LOTO mendapat presentase 72,2%. Penerapan standart prosedur (SOP) pengendalian energi di area *Gas Turbine* PT. XY Gresik masih belum dilakukan dengan baik, dan menggunakan peralatan LOTO yang tidak sesuai menurut OSHA 1910.147

Penerapan LOTO sebagai upaya pengendalian energi di area *Gas Turbine* PT. XY Gresik masih perlu perbaikan. Perusahaan direkomendasikan mengkaji ulang prosedur penerapan LOTO; pengadaan peralatan LOTO, melakukan sosialisai mengenai LOTO yang dapat dilakukan melalui *safety talk*, *safety breafing*, dan *safety indunction*. Perusahaan wajib mengadakan pelatihan khusus LOTO dan *refreshment training* kepada seluruh teknisi *electrician*.

Kata Kunci : *Lock Out Tag Out* (LOTO), penerapan LOTO, *standart operasional procedure*