Management and Control of Occupational Risk Related to Maintenance Activities of Work Equipment in Companies by Using Software Tools

Anca Elena Antonov*, Georgeta Buica, Constantin Beiu

National Research and Development Institute for Labor Protection “Alexandru Darabont”, 35A Ghencea Blvd., Bucharest, Romania

Abstract

Maintenance activities are among activities at work that can affect the safety and health of workers, both operators and those involved in maintenance operations of work equipment in use. Lack of maintenance can lead to a temporary or total stop of the production process, which means loss of production, as well as a high risk for the workers involved. Employers who do not maintain or use, at a high safety level, the work equipment may produce major accidents at work.

Taking into account the multitude of hazards and risks associated with maintenance and/or lack of maintenance, it is necessary to include it in the management system of the company by managing the maintenance activities of work equipment in use. The paper aims to develop a software model that allows efficient management of maintenance activities of work equipment as a tool to control occupational risks at company level. The software model is intended to provide real-time control of work equipment in use, through a risk analysis in terms of the history of the adjustment, maintenance, repairing and cleaning, including situations arising after the events, overhaul repairs and upgrades.

Key words: insulated network, safety, short-circuit current

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* Author to whom all correspondence should be addressed: E-mail: aantonov@protectiamuncii.ro; Phone: + 40 213131729; Fax: +40 213157822