



“Gheorghe Asachi” Technical University of Iasi, Romania



METHODS FOR REDUCING THE RISK OF HEARING LOSS IN POTENTIALLY EXPLOSIVE WORKPLACES

Silviu-Nicolae Platon^{1*}, Adriana Tudor², Doru-Costin Darabont³

¹*National Institute of Research and Development for Labour Protection, The Noise and Vibrations Control Laboratory, Ghencea Bvd. No. 35A, district 6, Bucharest, Romania*

²*National Institute of Research and Development for Labour Protection, The Noise and Vibrations Control Laboratory, Ghencea Bvd. No. 35A, district 6, Bucharest, Romania*

³*National Institute of Research and Development for Labour Protection, Ghencea Bvd. No. 35A, district 6, Bucharest, Romania*

Abstract

Noise causes masking effect of the safety signals and alarms, covers the warning acoustic messages of danger and reduces attention and concentration capacity. To these may be added the degradation of communication between workers equipped with hearing protective equipment and it creates difficulties to locate the direction of danger signals.

This article presents two researches regarding noise exposure level of the workers on a marine platform and a gas compressing station and establishes technical solutions and organizational methods regarding noise control in order to prevent and reduce the occupational deafness according to minimum legal requirements for the employer.

Keywords: exposure, hearing-loss, noise, prevention, safety

Received: May, 2016; *Revised final:* June, 2017; *Accepted:* June, 2017

* Author to whom all correspondence should be addressed: e-mail: silviunicolaeplaton@gmail.com