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A NEW METHOD FOR VERIFICATION OF IGNITION SYSTEMS INTEGRATED IN SPECIAL TRUCKS

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Abstract

The paper describes the results obtained during the experimentation of a new method that allows an in site verification of the electric systems for ignition of the electric detonators part of the special trucks for prospecting works, aiming to reach an adequate level of safety in operation. By this method, for in field verification of the electric detonators' ignition system that is mounted in the special trucks for prospecting works, based on the acceptance criteria and the operating ways on the safety parameters, the following are tested: insulation resistance, output energy and output voltage. Employing the verification method in situ prevents the operators electrocuting hazards, unexpected firing of electric detonators or misfiring in the blasting work itself, after the explosive charge was lowered into the prospecting hole. The method has successful experimented on site for 4 special trucks and it has implemented to INCD-INSEMEX Petrosani for testing programme of electric initiation system integrated in prospecting trucks in order to assessing the conformity of products in the voluntary field.

Key words: electric detonator, experimentation, method, on site, source

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