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AN EFFICIENT INTEGRATED METHOD FOR OCCUPATIONAL HEALTH AND SAFETY INTERNAL AUDITING, APPLICABLE TO COMPLEX WORKING SYSTEMS IN HYDROELECTRIC POWER GENERATION SECTOR

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Abstract

The integrated method for an internal efficient auditing of occupational health and safety applicable to complex work systems found in the hydroelectric power generation has been developed within the Project PN 07 45 01 12 of NUCLEU Program/2010-2011.

The documentation regarding the appliance procedure of the internal auditing method for the hydro-construction companies is structured in two parts: the first part which comprises the “Work instruments” and the second part, which comprises “The reporting instruments”. The method can be used for diagnose analyses in order to assess the global occupational health and safety level as well as for determining the safety risk in OHS field, case in which the base of the probability function related to the states of insecurity can be prognosed with a certain accuracy, the depreciation level of the safety status by estimating the exceeding probability of the value for such a status. In order to determine the safety risk in OHS field there has been carried out the adjustment of the law for the probability of representative/maximal sample values (values related to the insecurity states) obtained from the 21 checklists used in OHS auditing of the analysed objectives from within AHE Surduc-Siriu, to the Gumbel theoretical law of probabilities.

Key words: compliance, hydro-technical and hydro-energetic operations, internal auditing, method, safety risk

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