

MANAGEMENTUL RISCULUI TEHNIC ȘI TEHNOLOGIC ÎN INSTALAȚIILE TEHNOLOGICE

TECHNICAL AND TECHNOLOGICAL RISK MANAGEMENT IN TECHNOLOGICAL PLANTS

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Abstract: Technical risk and technological risk can be defined, in a similar way as technical safety, both qualitatively and quantitatively. From the qualitative point of view, technical risk refers to the possibility of occurrence of major damage over the lifespan of the system. The identification of potential major damages from the multitude of possible damages associated with a technical accident has as a main requirement the assessment of all the possible consequences of an accident. The potential consequences are then placed in a hierarchy according to their severity. From a quantitative point of view, technical risk represents the probability of occurrence, in the present, of a major damage or of an event which could generate major damage to the system. All in all, technical risk describes an unwanted event –which occurs during the exploitation of the technical system which is associated with a potential danger for the system - taking into account its probability of occurrence (p), the severity of its consequences (G), and the level of acceptability for these consequences (A). This article aims at analyzing and determining the technological risk induced by variability of a working parameter – temperature - in a technological facility.

Keywords: technical risk, management, technological parameters, technological facility, severity