Executing QRA Effectively on a Project

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ABSTRACT

The QRA contains many important steps such as Hazard identification, consequence analysis and frequency calculations. In the engineering design stage, the QRA is a highly integrated process. In this process inputs are provided not only by process but also by other disciplines such as piping, control systems, civil/ architectural, operations etc. During a design stage the QRA is often sourced out to a third party consultant. The tendency in this type of execution is to lay all the responsibilities on the third party consultant and adequate representation from the design team is often neglected. Proper definition of the scope of work is necessary for a successful execution of the QRA. In addition, milestones need to be set up to track the progress of the QRA at various stages and provisions made to integrate the QRA recommendations in the design. The design team also needs to ensure that a QRA coordinator is appointed to ensure successful interpretation, follow-up and completion of QRA recommendations.