Management of Flammability Risks Associated with Tank Headspaces

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Abstract

This presentation provides an overview of hazard exposures and risk management options associated with flammable mixtures that could form in the headspace of atmospheric storage tanks and processing vessels. Although many processing systems are closed and isolated from normal air, many storage tanks and some processing vessels (such as batch reactors) have potential for ingress of air during normal operation. Inerting is not always provided, and therefore alternate risk management strategies may need to be implemented. This presentation applies the risk reduction hierarchy approach from ANSI Z10 Safety Management System, and discusses a variety of risk reduction strategies.