# Design an Inherently Safer Plant

-

STEVEN T. MANUE, P.E. KRISTIN D. NONTON, P.E. SENSIN SURINEUS SIGN MANAGEMENT PROFESSIONALS, INC. Continue to search for ways to build safety into your process from conceptual through detailed design, to procurement and construction, and even into operation.

I observedly sailer denign (ISO) evaluations are important for observed plantamental procurs improvements that can observed between the consequences of plant are identic. They are typically performed at the conformation of phant are identical. They are typically performed at the conformations of procurs of procurs design, where changes are most consideration. As the described design contest into focus, tolerantly salier options are sarely revisited because the design of a complaint has shifted. Although fundamental changes during later design phases are more difficult, there may still be apportunities to entertain term black of tolerantly salier design. Thus, engineers should continue to truck for nave proclassions to improve plant saliety.

Because the design process.

This article describes arous of the totals that uses by used to identify these reprovince the provider anaexplore of inherently safer design strategies IV.a., minimizer, substitute, moldonete, science (17) to that can be appelled at diffforms points throng the design work, and office published on how to apply these concents during the verious riskassessment studies that are residently carried out during the design process. As always in Figure 1, appointmenting to incorporate influencedly sader features. decrease (due to entropiated costs and contains temporalizamental) as the produces chemistra excelvers from a conscioustual idea.

to an inpressing plant. However, it is the pressure designer's responsibility to coupley whatever books may be available throughout the design progression, as each can provide different, yet valuable, insights.

#### Conceptual design

The conceptual design phase contains the most opportunities for the identification and incorporation of inharantly active technologies into the process. Mentifying these apportunities and making changes prior to detailed design avoids the added costs and schanlab delays that would



A Pigger 1. Specification is incorporate SSS into a present cold Enroghant for tempo activity.

Life County of the

<sup>\*</sup> This arrange is bound on a justice procured at the determinant hardwark of Christian Engineers (2011) Spring Interfering and The Challes Compress on Personal Salting, Christian, 12, Volum 17-16, (2011)

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Yijin Wang



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