



Safety and Security Review for the Process Industries, Fourth Edition: Application of HAZOP, PHA, What-IF and SVA Reviews

By Dennis P. Nolan

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Dennis Nolan, drawing on decades of experience as a well-known safety author and senior loss prevention specialist at Saudi Aramco, provides the essential procedures and checklists in *Safety and Security Review for the Process Industries*. In addition to guiding the reader through the selection and execution of efficient and complete hazard analysis and safety reviews (such as HAZOP, PHA, What-If, SVA, LOPA, Bowtie), Nolan shares his personal experience and illustrates procedures with real-world examples.

Updated throughout to reflect changing practices, the fourth edition expands its scope to include maintenance, exploratory drilling, and governmental regulation updates. It adds best practice guidelines on CHAZOP reviews, expands on threats in the security vulnerability analysis, and includes more information on chemical process facilities and hydrocarbon/chemical plant safeguards.

Up-to-date form templates and “what-if” checklists are also available for purchasers of the book to download, making this a complete safety review toolkit.

- Helps you to achieve compliance and avoid disasters: provides the checklists and best-practice guidance needed to negotiate the labyrinth of hazard analysis and safety review procedures
- Keeps your knowledge up-to-date: coverage of the latest forms of hazard analysis and safety review, including LOPA and Bowtie
- Saves time and money: demonstrates how each of the typically required reviews is related, so that information and conclusions used on one may be transferred or adapted for another



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Editorial Review

About the Author

Dr. Dennis P. Nolan has had a long career devoted to risk engineering, fire protection engineering, loss prevention engineering and systems safety engineering. He holds a Doctor of Philosophy degree in Business Administration from Berne University, Master of Science degree in Systems Management from Florida Institute of Technology and a Bachelor of Science Degree in Fire Protection Engineering from the University of Maryland. He is a U.S. registered professional engineer in fire protection engineering in the state of California. He is currently on the Executive Management staff of Saudi Aramco, located in Dhahran, Saudi Arabia, as a Loss Prevention Consultant/Chief Fire Prevention Engineer. He covers some of the largest oil and gas facilities in the world. As part of his career, he has examined oil production, refining, and marketing facilities under severe conditions and in various unique worldwide locations, including Africa, Asia, Europe, the Middle East, Russia, and North and South America. His activity in the aerospace field has included engineering support for the NASA Space Shuttle launch facilities at Kennedy Space Center (and for those undertaken at Vandenberg Air Force Base, California) and “classified” national defense systems. Dr. Nolan has received numerous safety awards and is a member of the American Society of Safety Engineers. He is the author of many technical papers and professional articles in various international fire safety publications. He has written at least four books, several published by Elsevier.

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