

RISK MANAGEMENT GUIDE



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FOREWORD

This Guide presents an expansion of the risk discussion in the Management Oversight Risk Tree Analysis Manual.^{1,2} It was prepared as a textbook for use in Risk Analysis Workshops for Department of Energy personnel and for safety staffs of Department of Energy contractors.

The discussion includes the risk analysis of operational accidents and the role of risk analysis in line management and safety functions. Elementary probability, statistics, and risk theory are given. Practical applications for safety professionals and line managers are also given.

Line managers will be able to determine the necessary elements for a comprehensive risk management or loss control program. In addition, safety professionals will be able to apply basic risk evaluation techniques to new or existing systems, ranging from a single operation or process to an entire project or company.

Engineering analysis techniques (such as fault tree analysis or consequence analysis) and the processes of integrating risk with other organizational factors leading to managerial decisions are outside the scope of this Guide.

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