



AMERICAN PETROLEUM INSTITUTE

ANSI/API Standard 780

Security Risk Assessment Methodology for the Petroleum and Petrochemical Industries

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API Standard 780 methodology was developed for the petroleum and petrochemical industries, for a broad variety of both fixed and mobile applications. The standard describes the recommended approach for assessing security risk widely applicable to the types of facilities operated by the industry and the security issues the industry faces. The standard is intended for those responsible for conducting security risk assessments (SRAs) and managing security at these facilities. The method described in this standard is widely applicable to a full spectrum of security issues from theft to insider sabotage to terrorism.

The objective of conducting a SRA is to assess security risks as a means to assist management in understanding the risks facing the organization and in making better informed decisions on the adequacy of or need for additional countermeasures to address the threats, vulnerabilities, and potential consequences.

The API SRA methodology is a team-based, standardized approach that combines the multiple skills and knowledge of the various participants to provide a more complete SRA of the facility or operation. Depending on the type and size of the facility or scope of the study, the SRA team may include individuals with knowledge of physical and cyber security, facility and process design and operations, safety, logistics, emergency response, management, and other disciplines as necessary.

Ultimately, it is the responsibility of the user to choose the SRA methodology and depth of analysis that best meet the needs of the specific operation. Differences in geographic location, type of operations, experience and preferences of assessors, and on-site quantities of hazardous substances are but a few of the many factors to consider in determining the level of SRA that is required to undertake. This standard should also be considered in light of applicable laws and regulations.

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