



AcuTech's comprehensive knowledge of maritime and process safety regulations include:

- Safety and Environmental Management Systems (SEMS)
- Process Safety Management 29 CFR 1910.119
- Risk Management Program 40 CFR 68
- 33 CFR 101-106 Maritime Transportation Security Act (MTSA) regulations, including Outer Continental Shelf provisions
- 33 CFR 148-150 Deepwater Ports
- U.S. Maritime Transportation Security Act - International Ship and Port Facility Security Code – (MTSA - ISPS)
- USCG – Vessel Inspection Requirements

## SEMS Background

In October 2010, the Bureau of Ocean Energy Management, Regulation and Enforcement (BOEMRE) issued the Workplace Safety Rule requiring offshore oil and gas operators to develop and maintain a Safety and Environmental Management System (SEMS). A SEMS is a comprehensive management program for identifying, addressing and managing operational safety hazard and impacts to improve safety and environmental protection. The Rule makes mandatory the previously voluntary practices of the American Petroleum Institute's (API) Recommended Practice 75 (RP 75). Proposed changes to the Rule are now in a comment period with Bureau of Safety and Environmental Enforcement (BSEE).

## AcuTech's Safety Program Experience

AcuTech specializes in consulting for security, safety, and emergency management systems for the process industries. Our consultants have internationally recognized expertise in Process Safety Management (PSM) and Risk Management Programs (RMP), with specialization in the petroleum, chemical, and petrochemical industry. We have considerable experience conducting audits, evaluations, and assessments of safety programs, as well as investigations to determine causes of incidents and help companies develop, improve and implement management systems to prevent further undesirable consequences.

Our experience includes past work with offshore facilities and Safety and Environmental Management Programs (SEMP), experience working with API 75, auditing, and audit training. Due to our expertise in auditing and safety programs, as well as our work on the 2nd edition of the CCPS guidelines book on PSM auditing, AcuTech was recently contracted by API to develop a SEMS Audit Guidance document.

Our consultants are experienced at leading Hazard Analyses, developing safety management programs (such as Management of Change, Safe Work Practices, Mechanical Integrity, Incident Investigation, etc), writing operating procedures, performing Quantitative Risk Assessments (QRAs), and developing recommendations to help our clients understand and mitigate their risks. We have extensive experience with the USCG Maritime Transportation Security Act (MTSA) and performing Security Vulnerability Assessments (SVAs) for both onshore and offshore facilities. We also offer business continuity planning (BCP) through our specialists with extensive port security experience and national expertise in homeland security.



## SEMS Support Services

- SEMS 3rd Party Audit
- SEMS Gap Analysis
- SEMS Training
- SEMS Program Development
- RiskSafe© software for JSA by IHS (formerly Dyadem)

## Offshore Projects

- API SEMS (RP 75) Audit Guidelines
- FPSO Safety Audits
- Risk Analysis and Hazard Analysis
- QRA of Fire Protection System on unmanned offshore-platforms
- QRA of use of vapor barriers in offshore platform
- DWP and WSA for USCG and energy clients
- SVAs of platforms in Gulf of Mexico

## Qualifications for SEMS Services

AcuTech has the in-depth qualifications to provide cost effective and high quality safety programs. Our experience includes:

- Extensive experience developing policies, procedures and management systems for the safety elements composing the SEMS regulation which has strong parallels to the OSHA Process Safety Management regulation for on-shore facilities.
- AcuTech's safety auditing experience is formidable, having conducted hundreds of audits, and assessments of safety and process safety programs. Many staff engineers have additional extensive audit background as well as direct experience with developing safety programs while employed at chemical and refining companies.
- AcuTech was the contractor selected to write the CCPS *Guidelines for Auditing Process Safety Management Systems, 2nd edition*, published March 2011. The book is a significant revision of the 1993 1st edition and contains guidance for auditing the voluntary SEMP program (API RP-75) that preceded SEMS and which is incorporated into the SEMS regulation by reference.
- AcuTech was recently contracted by API to develop a SEMS Audit Guidance document to assist companies operating offshore oil and gas platforms in meeting the requirements of SEMS.
- Independent Third Party Contractor on Deepwater Port Independent Risk Assessments for the USCG in California, Massachusetts, and Florida.
- Conducted Waterway Suitability Assessments (WSA) for LNG sites in Texas, Georgia, and California.
- Through the AcuTech Training Institute (ATI), AcuTech has offered a number of courses in process safety and security, including auditing. A new course on the SEMS regulation is being offered this fall. Several of these courses have been offered through the API University.
- Frequent guest lecturers on security and process safety including seminars sponsored by CCPS, NPRA, SOCMA, ACC, API, Mary Kay O'Connor Process Safety Center.
- MTSA 33 CFR Part 105 and 106 assessments, as well as industry and government required SVAs, and facility/site security plans development for over many facilities onshore and offshore. Developed the American Petroleum Institute (API)/National Petrochemical and Refining Association (NPRA) SVA methodology.
- Trainer for API University safety and security courses.

## About AcuTech

The AcuTech Consulting Group is a global consulting company offering a full range of management and technical consulting, training services, and software products to assist companies with safety, security and risk management. Our scope of services includes regulatory compliance with federal, state and local requirements, but our abilities extend beyond these standards to enable us to deliver world class services for the most demanding global companies. AcuTech blends strong project management skills with a personalized, responsive business style allowing us to work in harmony with our clients. We emphasize on-time, cost-effective performance, provided by professionals experienced in achieving these goals. Contact us today at our headquarters at 703-245-3015, our Houston office at 832-431-3198 or email us at [help@acutech-consulting.com](mailto:help@acutech-consulting.com) to learn how AcuTech's services can help you.