

II. PROCESS SAFETY SYMPOSIUM AND EXHIBITION

Purpose of the Symposium

Process Safety Management System is one of the most critical issues that industrial plants can never neglect.

Process safety as a living process focuses on engineering, design, identification of hazards, event analysis, management change, equipment maintenance, supervision and testing, process control and alarm systems, operation and maintenance procedures, training of personnel and human factors.

The SEVESO III Directive, which will be republished in line with our legislation, requires many new obligations to the industrial facility owners/operators regarding the control of major accident risks in order to prevent major industrial accidents and reduce their impact.

In this context, relevant institutions should prepare safety reports and emergency action plans. Besides, the term "Large Accident Scenario" is mentioned in the notifications to be published and the responsibilities of writing new reports are discussed.

The harmonization of the SEVESO III Directive to our legislation will provide significant benefits regarding the prevention and mitigation of major industrial accidents in our country. It will also bring along legal, technical and institutional reforms.

These reforms will lead to technical knowledge, equipment and budget requirements for the relevant stakeholders and will ultimately be a serious test for our country.

Major industrial accidents may cause serious injuries and fatalities, and they may also cause considerable economic, financial and environmental damages. The consequences of hazards will be different for each hazard.

Pressure vessels, equipment, and boilers, which have caused many major industrial accidents in recent years, are widely used in industrial facilities such as petrochemical plants, refineries, paper facilities, etc.

Accidents in recent years show that the failure of the pressure vessels, boilers and equipment may cause serious injuries and fatalities due to fires, explosions, toxic releases, and fragment impact.

In many countries, the regulations and standards mention the necessity of considering these hazards in risk and safety assessments. The proper design, repair, periodic checks, tests and inspections, and integrity assessment of pressure vessels, boilers, and equipment may reduce risks.

On the other hand, technology is developing rapidly, and the most significant innovation of technological development has been Industry 4.0. The intersection of process safety and Industry 4.0 is inevitable, and many technological innovations are emerging.

During this symposium, it is aimed to bring together all stakeholders, the process legislators, auditors, sector employees, trainers, and product and service entrepreneurs, certification bodies. Besides, it is aimed to be helpful for all stakeholders for understanding and directing the process, and to share knowledge, and information regarding researches, solutions, products and services.

PROCESS SAFETY SYMPOSIUM AND EXHIBITION TOPICS

1. SEVESO III DIRECTIVES / REGULATION ON THE PREVENTION AND IMPACT OF EFFECTIVENESS OF LARGE INDUSTRIAL ACCIDENTS

- What are the new regulations and notifications that will be regulated according to SEVESO III Directives?
 - Management of Chemicals and Quantitative Risk Assessment
 - Security Management Systems
 - Preparation of CBP / Security Reports
 - Identification of Large Accident Scenarios
 - Disaster Response Plan for Turkey

- Domino Effects
- New Regulations in BEKRA Notification
- ATEX Directives
- How will the Safety Management System Inspections according to the SEVESO III Directive be?
- Industrial Applications of the SEVESO III Directives
- Good Practice Examples on SEVESO in EU Countries

2. PRESSURE VESSELS AND EQUIPMENT

- Directive 2014/68 / EC New Pressure Vessels Regulation and Innovations
 - Asset Management
 - Pressure Equipment / Cap Classification, Compliance Assessment Procedures
 - Approvals Required for Materials (EU Declaration of Conformity)
 - User Inspectors
 - Standards and CE Certification Processes
- Explosion, Fire and Seismic Assessment and Design of Pressure Vessels and Equipment
- Design and Integrity Assessment
 - Periodic Controls, Test, Inspection and Repair Techniques
- Pressure Equipment / Vessels in Industry Security Management System, Management and Security Measures

3. DIGITAL TRANSFORMATION AND PROCESS SAFETY IN INDUSTRY

- Digital Transformation and Industry 4.0
- The Benefits and Applications of Digital Transformation for Process Safety
 - Intelligent Production Techniques and Systems
 - Robotic Automation Processes and Integration into Business Activities
- Bigdata and Its Effects on Process Safety
- Effects of Digital Transformation on Maintenance Processes and Benefits

