

# Consequence Analysis of Loss Containment



## **TSM TheSafetyMaster Private Limited**

*TheSafetyMaster™ is a young organization with a dedicated team of young, innovative, research driven & experienced professionals, who want to create value for their customers by providing ingenious services in the field of Safety.*

*Our mission is to deliver Safety Services to our Customers with High Customer Satisfaction & priority and making safety a priority for everyone.*



# 1. Consequence Analysis of Loss Containment

## 1.1. Loss Containment

Loss-of-containment occur when a fluid which is sometimes contained somewhere escapes from that place. The results of that spurious valve closure would be over-pressure of an upstream system, resulting in loss-of-containment and risk of fireside.



## 1.2. Consequence Analysis

Consequence analysis involves the analysis of the potential of hazardous incidents



that would cause injuries, fatalities, and damage to assets and therefore the environment.

Consequence Analysis is that the process of examining the possible effects of a planned activity, or the expected effects of incident outcome cases, independent of frequency or probability

A sequence of failures may end in a hazard becoming a significant incident, and analysts have to determine the results of every of those hazards. This could be supported the worst possible scenario

Analysis should be accurate and realistic







TheSafetyMaster is a Top Safety Consultant in India providing quality safety services for all types of enterprises. We have years of experience in offering top-notch engineering services and employing the most advanced technology in the safety business. The company's safety consulting service helps clients meet any and all requirements with needs.

We offer highly sophisticated solutions and services that follow international standards. We have successfully planned unmatched programs for various clients across national and international territories. The company offers safety evaluation solutions, safety consulting services, safety permit services, accident prevention solutions, OSHA compliance consultations, health, and safety program management consulting, training, certification, and many more

Loss of containment could be a major issue facing the petroleum industry because not only that it dent the image and honor of the industry but also because it should result to environmental pollution, destroy of the ecosystem towards land within the water bodies, wastage of land, vegetation destruction, loss of life and property, direct costs of products and lie downtime, environmental cleanup costs, possible fine and legal suits.

The uppermost reason behind loss of containment is detected as fossil fuel pipeline leak which can ensure to rupture, obsolescence, corrosion, and third party interference.

Further causes may include mechanical integrity failures, poor process design or design fault, incomplete process technology documentation, inadequate hazard analysis, lack of management of change, unexpected or uncontrolled reactions, human error, etc.

Loss of containment incidents disclose that in many cases the loss of containment was detectable for a major length of your time before plant staff became attentive to the failure. If operators are alerted to a loss of containment within the early stages of a failure, they'll often mitigate the results of the event.



### 1.3. Prevent Loss of Containment

An effective LOC reduction program must identify and assess the hazards, evaluate the range of potential causes and consequences, and provide appropriate safeguards and systems to help reduce the potential for serious LOC incidents.

An effective LOC reduction program consists of six steps:

1. Identify and assess the chemical hazards present and eliminate or reduce hazards when possible.
2. Manage the risks of potential LOC events.
3. Reduce the potential for human error.
4. Reduce the potential for equipment failure.
5. Learn from LOC events.
6. Manage changes to reduce the potential for LOC.



#### Our Mission

Our mission is to deliver Safety Services to our Customers with High Customer Satisfaction & priority and making safety a priority for everyone.

#### Our Services

- HIRA
- HAZOP
- QRA
- Process Hazards Analysis
- LOPA
- SIL

Our services include Audits, Trainings-Certification, Safety Management System, Risk Assessments, Safety Culture, Software, Products, Online Training, and Campaigns.

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