Click on incident name in "Event" column
to go directly to 1-Page incident summary.

Major Process Safety Incident vs Root Cause Map

(Quick Reference Guide)

Click on link to go directly
to investigation report.

Trevor Kletz famously observed that ***"Organisations have no memory. Only people have memory and they move on"***. He also observed that ***"Accidents are not due to lack of knowledge, but failure to use the knowledge we have"***.

This Refining Process Safety Incident database was inspired by these observations. Its purpose is simply to raise awareness of major incidents in the oil refining sector, to promote the importance of root cause analysis and to catalyse sharing of lessons learned and good practices. The infographic below provides an overview of the main root causes of each incident and enables the user to quickly identify which incidents share common root causes across multiple refining technologies. The document contains hyperlinks so the user can simply click on the incident name in the "Event" column to directly access a 1-Page incident summary or can click on the corresponding link in the "Investigation Reports" column to directly access the investigation report (where available in the public domain). The 1-Page incident summaries provide a brief description of the incident an highlight key points (including basic causes, critical factors, root causes and lessons learned) in addition to signposting users to the detailed investigation report and selected other pertinent reference materials.

The following definitions were used in development of these 1-Pagers:

- Near Miss is an undesirable event which, under different circumstances, could have resulted in a process safety incident.
- Immediate Cause (or Basic Cause) is a sub-standard act or condition that led directly to the incident.
- Critical Factor is an undesirable act or condition which, if eliminated, would have prevented occurrence or reduced the severity of the incident.
- Root Cause (or System Cause) is an organisational failing that created circumstances or conditions enabling the incident to take place.

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