



# Technical Integrity

*February 2008*

- Technical Integrity/ Process Safety - What is it?
  - Understand What, Why & How of the Integrity
- What it means to our Industry
- Create a culture supportive of Integrity

## Definitions:

### US OSHA

The Process Safety Management (PSM) of Highly Hazardous Chemicals (HHC's) standard, 29 CFR 1910.119 is intended to prevent or minimize the **consequences** of a **catastrophic release** of toxic, reactive, flammable or explosive HHC's from a process.

## Definitions:

### US OSHA

#### *Baker Report Reference*

*Process safety hazards can give rise to major accidents involving the release of potentially dangerous materials, the release of energy (such as fires and explosions), or both.*

## Definitions:

### US OSHA

### *Baker Report Reference*

### UK HSE

**Asset Integrity** is the ability of the asset to perform its required function effectively & efficiently whilst **safeguarding life & the environment**

## Definitions:

US OSHA

*Baker Report Reference*

UK HSE

Industry Definition

**Technical Integrity** addresses the management of **barriers** to **major accident** events that would be harmful to **people** or **environment**.

# Why Manage Technical Integrity

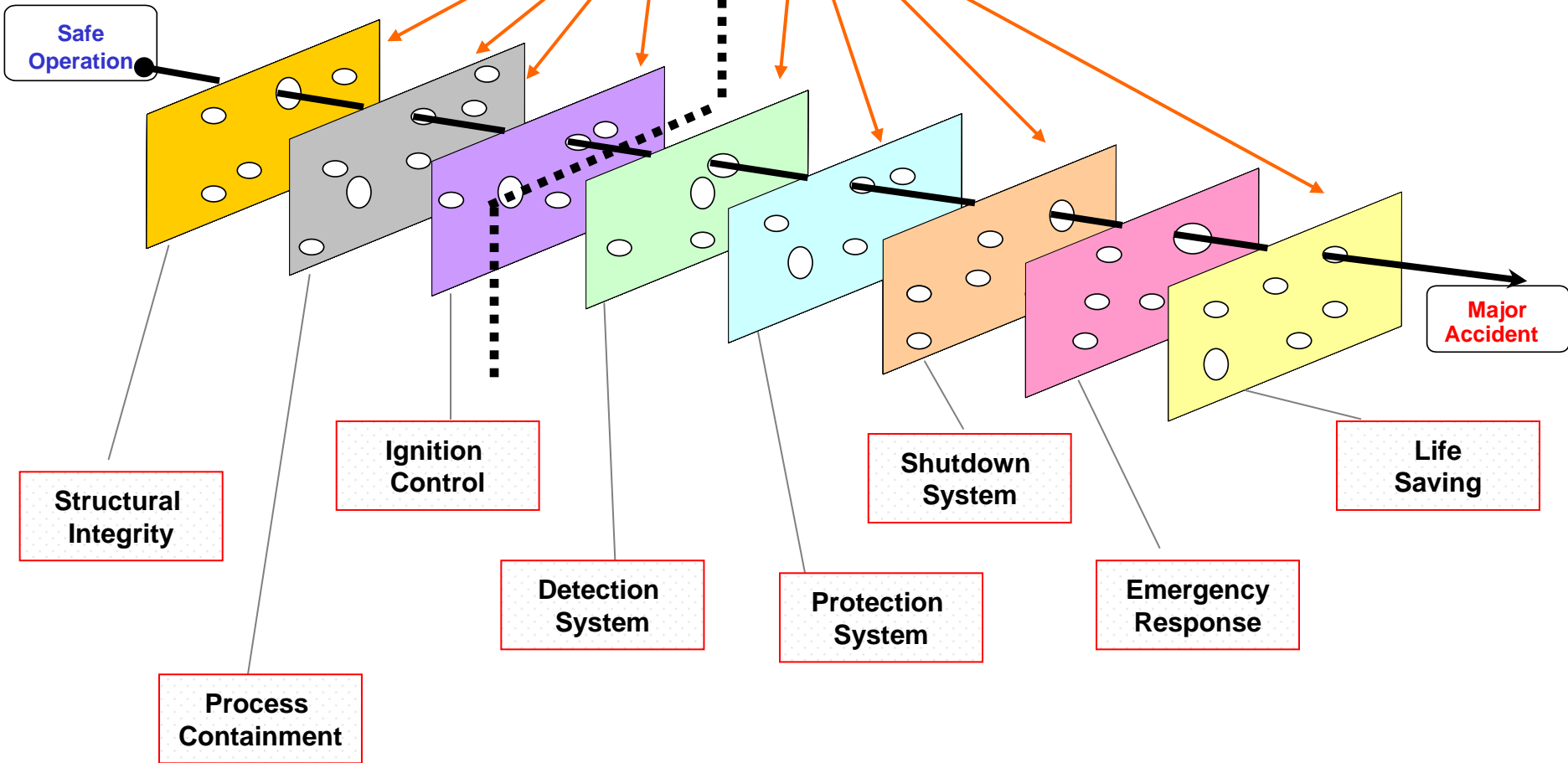


Technical barriers to Major Accident Events (MAE) are given an elevated status.

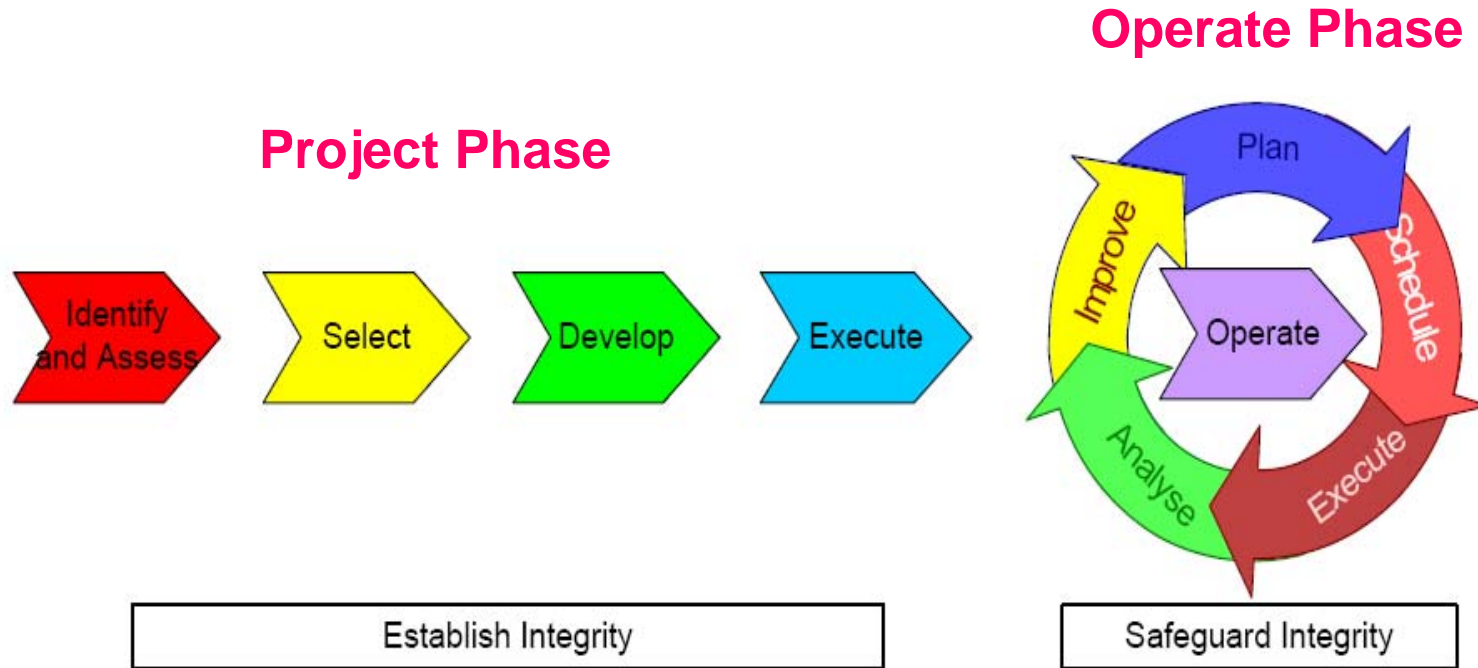
Technical Integrity Management is fundamental to successful Major Incident risk prevention

# How to Manage Technical Integrity

## Safety critical elements



# Integrity through Life Cycle



## Examples of TI Key Performance Indicators (KPIs)

- Technical Change Compliance
- Technical Integrity Maintenance Execution
- Standing Alarms
- Hydrocarbon Releases

Questions?