



## PROCESS SAFETY MANAGEMENT SYSTEMS

Process safety management systems? What are these systems and why should I want to identify and implement the management system?

As you would know the Department of Labour has published a new guideline on how to perform the Quantitative Risk Assessment for Major Hazard Installations. This is known as the SANS 1461\_December 2018\_Edition 1 standard. The standard requires the Approved Inspection Authority to review the company's Process Safety Management System and make recommendations to the Department of Labour. Without a process safety management system, your company will carry the risk of not having your license renewed or worse case, if there is a fatality, the Directors/Management can be imprisoned according to the OSH Act by failing to comply with the legal requirements of

the Major Hazard Regulations.

The Process Safety Management System comprises of the following elements:

1. Employee Participation
2. Process Safety Information
3. Process Hazard Analysis
4. Operating Procedures
5. Training
6. Contractor Safety
7. Pre-start up reviews
8. Mechanical Integrity of Process Equipment
9. Hot Work Permits
10. Management of Change
11. Incident Investigations
12. Emergency planning and

response programs

13. Compliance audits
14. Trade secrets.

The first step in reviewing your establishments status is to perform a Process Safety Gap analysis. *This service is offered by MHI Risk Engineers.*

Like with any audit a compliance plan will be generated. This is the starting point for the establishment to initiate the process of developing a process safety management system.

You can view a short video about the elements of the process safety management system at the following link:



## News from around the world

### **Spill at Coca-Cola Plant, Texas “A Sticky Situation”**

**4 April 2019**, A neighborhood in El Paso, Texas, is being forced to clean up a sticky-sweet mess after a local **Coca-Cola** facility accidentally flooded the streets with soda.

The spill, which took place on Tuesday night, is said to have affected several blocks just south of the facility and even seeped into homeowners' yards.

An employee with the city told **KOAA** that crews had contained the soda, though it was Coca-Cola's job to remove the sludge. Early on Wednesday, cleanup crews were pictured mixing the soda with dirt in order to make it easier to remove.

A representative for Coca-Cola was not immediately available to confirm what caused the spill, though some locals say they believe the soda came up through a drainage system.

### **Anhydrous Ammonia Leaked at Mason City Co-Op Contained**

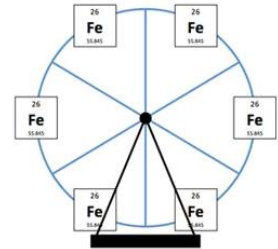
**16 April 2019**, An anhydrous ammonia leak Tuesday from a tank at the Five Star Co-Op in south Mason City, USA has been repaired. That's according to Mason City Fire Department Deputy Chief of Operations Aaron Beemer. Beemer said that a hazmat team for the fire department put a new valve in place to control the leak shortly before 4 p.m. Tuesday, some seven hours after the leak was first reported. According to Beemer, the **300 000-liter** tank at Five Star Co-Op was full when a piece of equipment flew off and sheared part of the valve. Over the course of the day, about 21% of the ammonia inside was lost.

Two businesses in the immediate area of the leak – Cartersville Elevator and the Mason City Recycling Center – were evacuated for precautionary measures and Beemer said that as soon as the all-clear was given the key holders at the businesses were allowed back.

Several roads in the area, that had been closed, were also re-opened.

*Just for the FUN of it*

### **WHAT'S A CHEMISTS FAVORITE CARNIVAL RIDE?**



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