

Connecting**Chemistry**



## Managing Risk in Chemical Sector - Identification of Key Risk Controls



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## Outline

- **Brenntag + Chemical Distribution**
- **Legal and Other Requirements – Chemical Safety**
- **Key Risk Control Indicators**
- **Near Miss Reporting**

## **Brenntag Canada Inc.**



**Chemical Distribution**



**100+ Years Old**

**Global Company**

**17 facilities in Canada**

**520 Employees**

## **Accreditations and Standards**

**First N.A. Chemical distributor to gain ISO 9000 accreditation**

**First chemical distributor in the world to gain ISO 14000 accreditation**

**Founding member of the CACD**

**A responsible distribution® and responsible care® company**

**Certificate of Recognition (COR Certified) – Alberta**

**American Institute of Baking (AIB Registered) (Pending Transition to BRC)**

**Licences/Permits for Handling of Other Regulated Substances**

**NSF, Halal and Kosher Certified Products**

## Products



Flammable, Combustible Products



Corrosives



Propellants



Oil&Gas – Well, Pipe & Refinery



Commodities



Poison Inhalation Gas Products



Plastics



Food, Pharma & Cosmetic Products

## Activities

**Railcar Handling**



**Mixing And Packaging**

**Office Activities**



**Warehousing, Storage & Transport**

**Bulk Tanker & Mini-Bulk**



**Off-site Activities**

## **Sample Legislative Requirements - Federal + Provincial**

**Occupational Health and Safety Act & Regs**

**Hazardous Products Act (WHMIS/WHMIS 2015)**

**National Fire Code**

**Building Code**

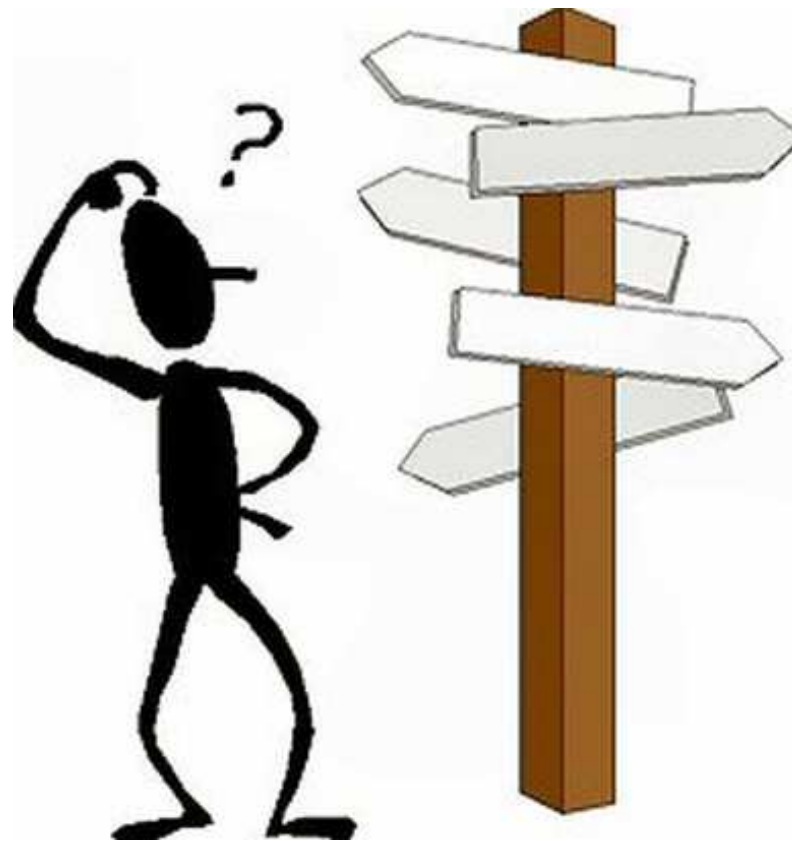
**Transportation of Dangerous Goods Act & Regulation**

**Employment Standard Acts & Regs**

**Environmental Protection Acts (Canada + Provincial)**

**Various referenced standards: Eg. CSA Documents – B335 – Lift Trucks**

## How to Manage Everything?



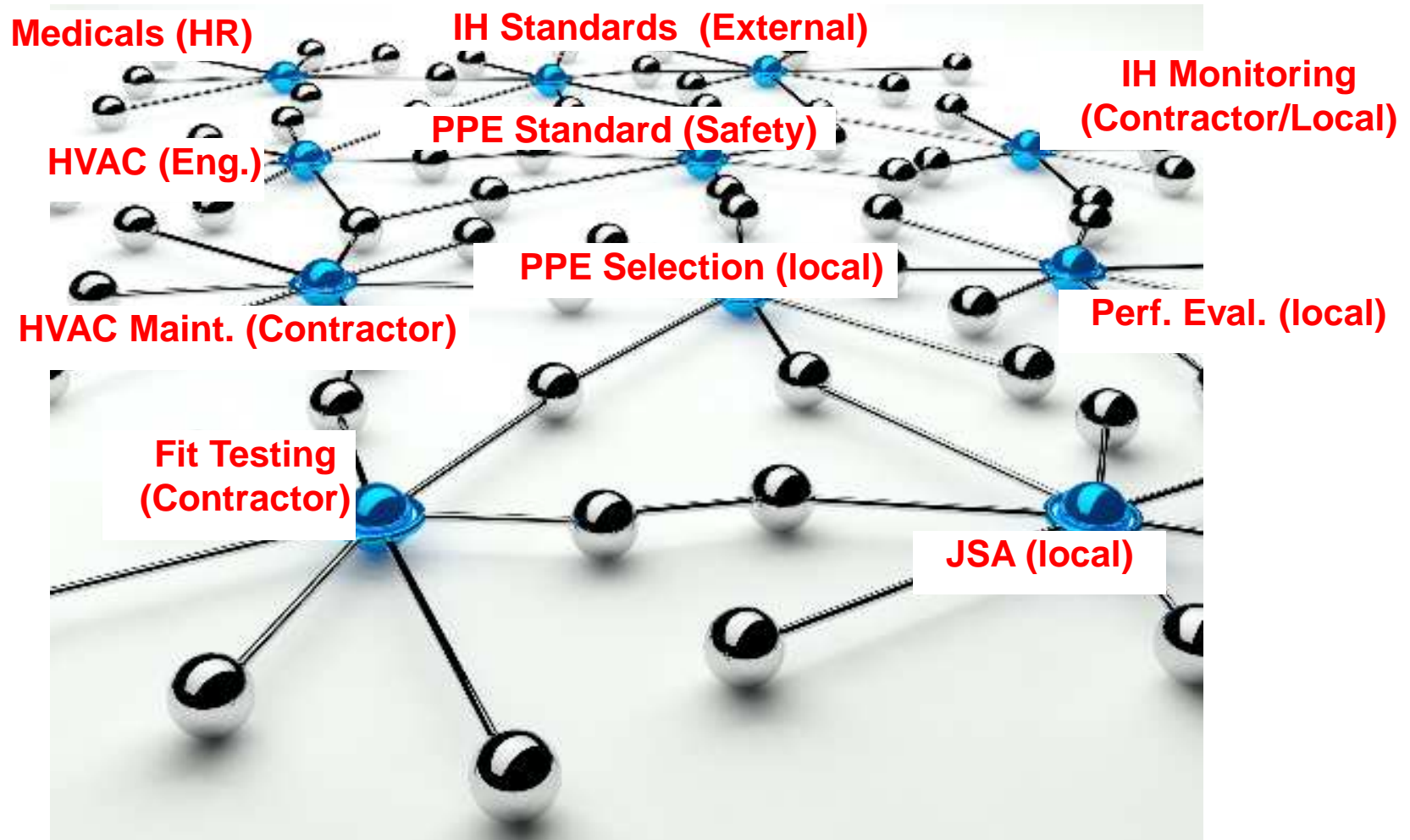


## Challenges still exist in Integrated Management Systems...



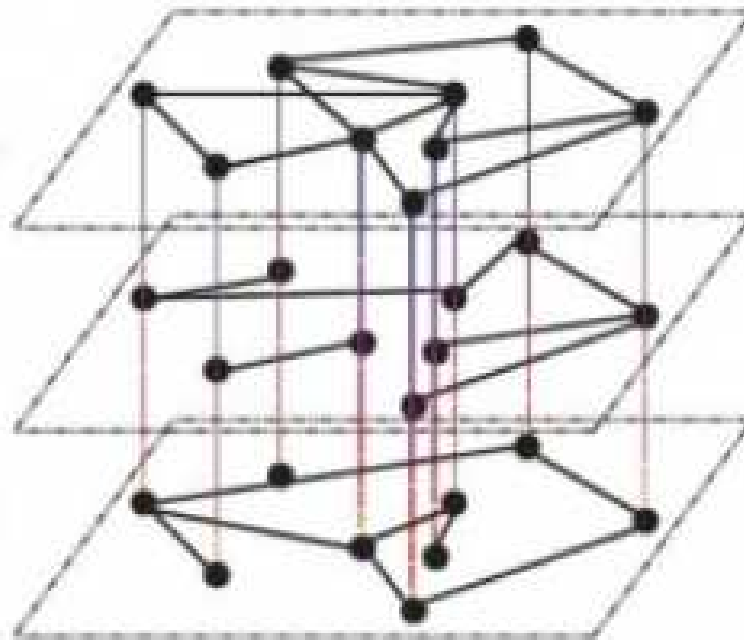
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## Consider – Inhalation Hazards





**What can be monitored to provide a measure of assurance?**



## **Good Risk Management Indicators**

**Leading – Not Lagging**

**Cover wide range of Hazards**

**Address High Risk Activities or Products**

**Easy to Monitor**



## Near Miss Reporting



## Near Miss Reporting....



# The Twitter Feed

## Near Miss Reporting – Benefits



**Everyone had a safety focus**



## **What made the Near Miss Reporting System a Good Indicator?**

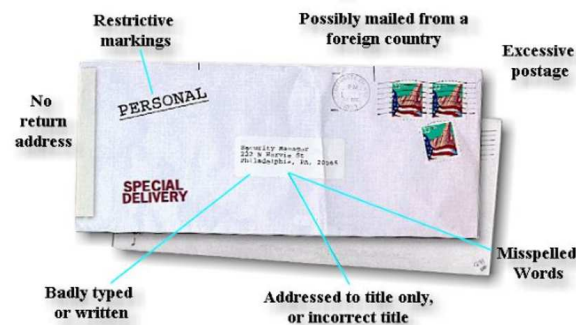
- **Measure of Performance Pressure → Pre-emptive Safety Time-outs\*\*\***
- **Local Repeating Issues → Business Challenges**
- **Canada-wide trends → other key risk indicators**
- **Expected Near Misses - Not Reported → Knowledge gaps**
- **Risk Awareness**
- **Training Effectiveness**
- **Evaluate Competency vs. Evidence of other business challenges**

## Example – Suspicious Packaging – 3 Yr Training cycle

<b>Date of Event</b>	Sunday, April 09, 2017
<b>Time of Event</b>	2:30:00 PM
<b>Facility or Employee's Manager</b>	<input type="text"/>
<b>Place Event Occurred</b>	Home
<b>Exact location of Event</b>	Calgary
<b>Brief Summary/Description of Event</b>	My dad is visiting us and has been applying for jobs in Canada. Yesterday, we received a job offer letter and cheque for 4,800 CAD in my dad's name. My dad never went for an interview with them, nor did he receive any email. This was the first red flag. There were a few more red flags: 1. The envelope did not have the Nissan logo, 2. The offer letter had the Nissan logo haphazardly placed on the corner of the first page only and 3. The word corporation was spelt incorrectly in the email address.
<b>Action Taken/Comments</b>	We immediately went to the Nissan Canada web page to cross check the contact and address information in the offer letter. Under the contact information, there was a customer alert for a fraudulent cheque scam. False cheques have been sent related to Publishers Clearing House and Freelotto Mega Lottery Sweepstakes. We didn't find anything about fraudulent job offers. We called the customer service line to report this scam. If a person were to take the cheque to the bank, it would bounce back and they would have tried to call the number on the cheque and risk giving their personal/banking information. This is highly unfortunate as people are in desperate need for money in the current market and may fall for the scam. It is very important to use sound judgment and be skeptical of any such letter/calls etc.



### What makes it a Suspicious Letter?



Identification

## **Other Key Risk Control Indicators**

- **Housekeeping Inspections**
- **Safety Meetings**
- **Training (includes Emergency Response)**
- **Communication (Continuous)**
- **Key Asset Management**

# Housekeeping Inspections



## **Managing the Key Risk Control Indicators (KRI)**

- **Database for KRI collection and monitoring**
- **Annual Training on Database elements**
- **Inclusion of KRI in Objectives/Targets and Employee Performance Metrics**
- **Monthly Meetings to prevent complacency**

## Safety Performance

<b>The GOAL is ZERO</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>
<b>Number of Lost Time Injuries</b>	0	0	0	0	0	0
<b>Total Recordable Injuries (Number)</b>	1	4	0	0	1	1
<b>Total Recordable Incident Rate</b>	0.21	0.84	0.00	0.00	0.21	0.21
<b>Near Misses (% reporting)</b>	79%	93%	93%	96%	97%	102%

