



Safety Moment – Driving in Heavy Rain

SLOW DOWN

- Increase following distances.
- Speed limits are set for ideal road conditions
- Visibility is reduced; braking distances increase.

LIGHT UP

Use low beam headlights to help others see your car.

POSITION

 When available, drive in the center to avoid standing water; the center is typically higher than the sides of the road.

- Be careful of standing water and running water.
 - It doesn't take much standing water for most drivers to lose control.
- Be a follower.
 - Driving in the tracks of other vehicles can improve traction and help avoid hydroplaning.

MAINTENANCE

- Make sure wipers are in good condition; check regularly.
- Fresh tire tread
- Keep emergency kit in vehicle.





Definitions

- ICMM
- Internal organization definition

"precursors of undesired OHS outcomes lie in areas relation to; people, organizations including culture, systems, process and plant" ICMM

 What are some current leading indicators your site or company uses a safety leading indicators?



Leading indicators evolve through the life of the organization, as your hygiene program evolves your indicators will as well.

Global Estimates of the Burden of Injury and Illness at Work 2012...

Country	Acute Fatalities Reported	Fatal Work Related Diseases
Canada	465	11,330
U.S.A.	5,214	95,808
Australia	207	6,962
Totals (Top 27 Industrialized Nations)	11,850	306,988

Takala et al., Global Estimates of the Burden of Injury and Illness at Work in 2012.



Creating a Leading indicator

- Asses where you are in levels of maturity, reactive vs proactive,
- Questions to ask your leadership
- Are occupational exposure assed at your site using SEG's with a sampling plan in place?
- Do you have dedicated staff/consultants sampling yearly based on your SEG's or are you reactive?
- When using hierarchy of controls are PPE and administrative controls often permanent solutions?



Example of a leading indicator

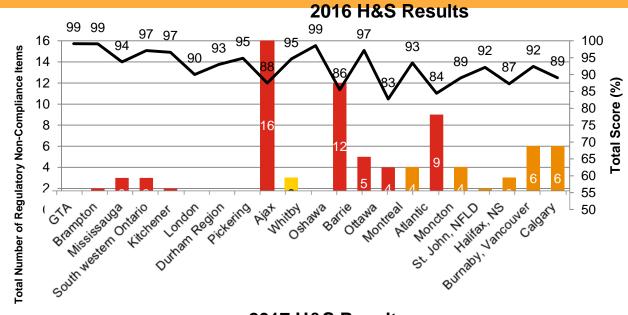
1. 100 SEG's (Similar exposure groups) and 540 samples.

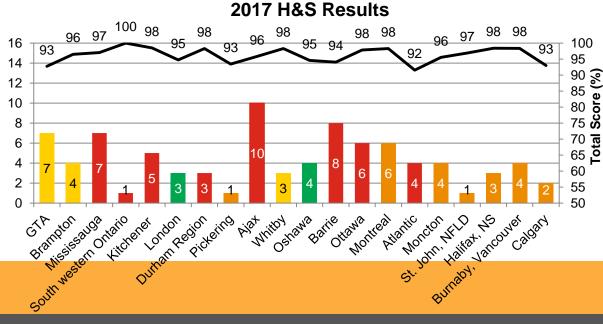
2. Corrective actions, using the hierarchy of controls.

Audits? Do you sample only when there is an issue?

3. Medical surveillance, % to plan

Output of using leading indicators



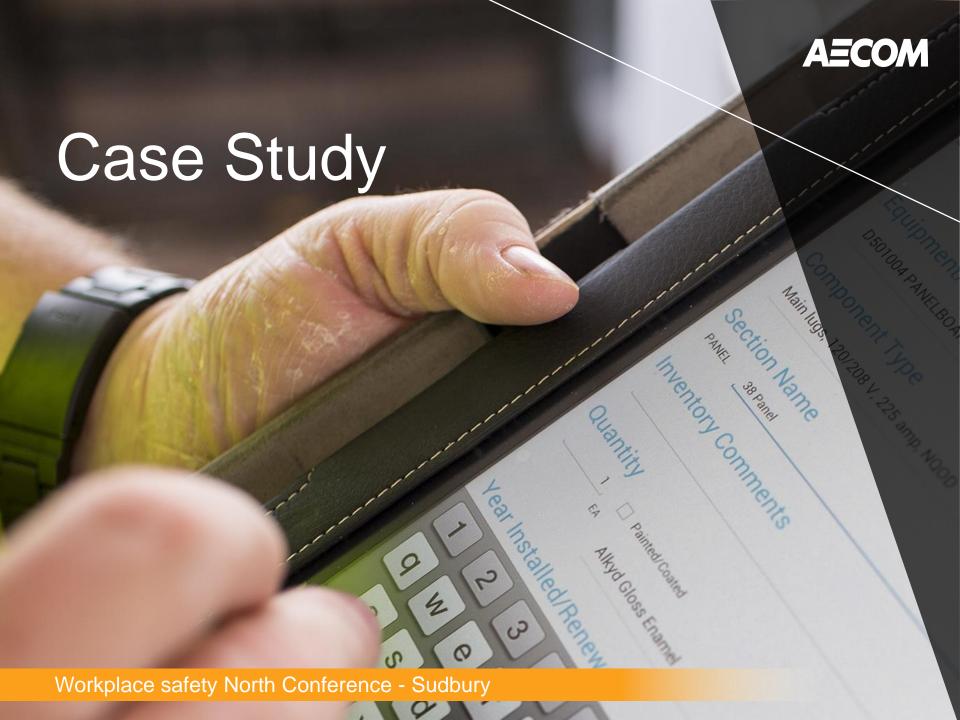


Total Number of Regulatory Non-Compliance Items

Total Score (%)

Total Number of Regulatory Non-Compliances

Rank		
1	Risk 1: Refrigeration and Refueling installation and UST/AST for generators or heating/used oil	
2	Risk 2: Refrigeration or Refueling installation or Propane >4.5 t + UST/AST for generator or heating/used oil	
3	Risk 3: No refrigeration, no refueling installation, only AST for generator /heating / used oil	
4	Risk 4: No refrigeration, no refueling installation, no AST	



Mining Case Study



Mining Case Study



Mining Case Study



