Safety in BC’s Forest Industry?

Wood Products Safety Summit
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Overview

- Collaboration makes us better
- Finding opportunities to learn
- Where can Process Safety fit it
- Leading on Safety
Collaboration

We Don’t Compete On Safety
Collaboration

“None of us is as smart as all of us” Ken Blanchard
Collaboration

We have a number of key venues to collaborate

• **Conferences** – Interior, Island, This conference, etc
• **Key Groups** – MAG; WPAC;
• **Health and Safety Association** – BC Forest Safety Council
• **Regulators** – WSBC, Technical Safety BC, Fire Commissioner
• **Insurers & Vendors** –
• **One on one** – subject specific

*Increasing the pace at which we can identify and implement actionable leading practices can improve safety results*
Opportunities to Learn

- Focusing on a risk based approach
- Combustible dust
- Safety leadership & advanced training
- Safety Culture
- Investigations
- Process Safety Management
Opportunities to Learn

- Safety leadership & advanced training
  - More can be done to advance training on this
  - Impact of emotional connections to safety
  - Safety discipline
    - Just culture and the role of leadership
  - Leadership power & relationships
Process Safety Management

- We chose to implement it because it can make our operations safer
- We want to execute in a sustainable fashion
- Build on existing strengths
As our people interact with our systems...

Incidents and injuries are still occurring.
PROCESS SAFETY MANAGEMENT REALIZATIONS

Process Safety...Learning from Oil & Gas
"This machine is perfectly safe...
As long as you never press this button."
PROCESS SAFETY MANAGEMENT REALIZATIONS & THE SWISS CHEESE MODEL
PROCESS SAFETY MANAGEMENT REALIZATIONS

**Process safety**
- Inherently Safer Design
- Emergency Response
- Mechanical Integrity
- Facility Siting
- Functional Safety
- Risk Assessments
- Management Of Change
- Policies & Procedures
- Safety Audits
- Employee Training

**Personal safety**
- Structural Design
- Fall Prevention
- Ergonomics
- Work Schedules
- Personal Protective Equipment
- Total Recordables
PROCESS SAFETY MANAGEMENT REALIZATIONS

Personal Safety

Process Safety

Hierarchy of Control

Elimination / Substitution

Engineering

Administrative

PPE

Should start here...

But frequently lands here...

As such, responsibility for hazard controls is often in hands of front line workers and supervisors

Must start here

As such, responsibility for hazard controls is often in hands of senior management and engineers

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Great systems rely on a variety of controls.

**COMBUSTIBLE DUST**

**STOP THE LEAK**
- SonicAire fans, etc.
- New conveyors, transitions, etc.
- Dust cleanup, audits, inspections
- Training / Education / Competency
- Dust masks / respirators / goggles, etc.

**PROCESS SAFETY MANAGEMENT REALIZATIONS**

- **Elimination**: Remove the hazard
- **Substitution**: Replace or substitute
- **Engineering**: Isolate hazard
- **Administrative**: Change the way we work
- **Behaviour**: Competency & communication
- **PPE**: Personal Protection
- **Increasing participation & supervision needed**
- **Increasing effectiveness & sustainability**
The Wood Pellet Association of Canada has been working with ACM (an PSM leader) to develop a modular approach to implementing the key elements of PSM over a number of years.

Modules rollout out to date:
- Process Hazard Analysis / Hazard & Operability Study (PHA/HAZOP)
- Management of Change
- Documentation

New modules for 2018:
- Investigations
- Due Diligence
SELF EFFICACY & LEADERSHIP

Each of us can choose to make a difference

• It starts with you... communication & relationships

Self-efficacy

“If you think you can or think you can’t, you are right.”
Henry Ford

“There is a positive, significant relationship between the self-efficacy beliefs of a change agent and her/his ability to facilitate change and get good outcomes

Source of image: www.h3daily.com
The reality is, the concept of leadership has changed...
LEADERSHIP — THE REALITY HAS CHANGED

Jeremy Heimens  TED talk “What new power looks like”
https://www.youtube.com/watch?v=i-S03JfgHEA
In Summary

- We have opportunities to be better
- Working together, we can be stronger
- Collaborate with everyone, more
- Thanks for being here
Thank you!

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Join us at the Wood Pellet Association of Canada – Annual Conference
Vancouver, BC, Canada
Sept. 18-19, 2019