



WPAC Safety Committee July 17, 2019 Conference Call Minutes & Action Items

Recorded by Gordon Murray

Attendees:

John	Arsenault	Quebec Wood Export Bureau
Jimmy	Boudreau	Canfor
Chris	Cloney	Dust Safety Science
Grace	Cox	Canfor
Jeff	Johnston	Pinnacle Renewable Energy
Colin	Jones	Logistec
Phillipe	Landry	J.D. Irving, Limited
Steven	Mueller	Pinnacle Renewable Energy
Gordon	Murray	Wood Pellet Association of Canada
Jeff	Mycroft	Fike Canada Inc.
Jessica	Overton	Foothills Forest Products Inc.
Greg	Rye	West Fraser
John	Swaan	FutureMetrics
Miles	Wright	Great Northern Timber
Fahimeh	Yazdan Panah	UBC -Biomass and Bioenergy Research Group
Chris	Zuberec	BFL Canada
Victoria	Stowbridge	Fike Canada Inc.

Call to Order & Introduction

Gordon Murray called the meeting to order at 11:03am

Approval of the Minutes of Previous Meeting

The minutes of the May 8, 2019 meeting are approved.

Approval of the Agenda

The agenda is approved.

Review of Action Items of Previous Meeting

1. **June 11 Safety Conference.** The conference was a success with attendance from more than 100. Steve Mueller suggested finding ways to get the audience more involved next year as it is a long time for people to sit through presentations. This item is closed until next year.

2. **Process Safety Management** – It was agreed that the next workshop will take place in October. **ACTIONS** – (1) Gord, Scott, Dustin and Fahimeh to work with Jenny Colman on the content and specific examples for the workshop. (2) Gord is to propose a date for October in Richmond.
3. **HCI Monitoring and Alarm Systems** – **ACTIONS** – (1) Gord is to coordinate with Jenny Colman on producing an HCI workshop in Prince George in November with the following topics: - *Situation Awareness & Information Processing; Case Study Impact Example; HMI Design Practices; Display Levels; Visual Clutter & Situation Awareness; Navigation & Interaction; Working Examples from Pellet Industry; In small groups – take current Pellet display example(s) – critique and provide alternative layout and presentation ideas; Present findings to the group.*
4. **Plant Operator training** – Dustin is to lead. **ACTIONS** – (1) Committee members are to suggest subject matter experts to Steve Mueller who could attend an August 12 planning meeting. (2) Committee members are to send examples of HCI operating procedures to Dustin. Dustin will assemble and give to the consultant Greg Shorland for a starting point for developing standardized competency material. (3) Dustin and Steve are to hold the first operator meeting on August 12 and report back to the committee during the August conference call.
5. **Combustible Gas & Confined Space Webinar** – This item was completed during the June 11 safety conference.
6. **Work Plan Communication** – Gord wrote an article for publication regarding activities of the safety committee and the work plan. No further action is required for this item.
7. **Work Plan: Action Items to Bring Forward** – (1) For October, companies are to report on progress on implementing best practices for combustible dust in raw product storage areas; (2) For October, Combustible dust and confined space – negotiate procedures for implementation with WorkSafeBC ; (3) For August, Gord is to ask Cherie Whelan to join next call to give us an evaluation of how successful the data gathering has been, a summary of findings, and what we can do with the data.
8. **WorkSafeBC OHS Regulation Amendments** – Gord reviewed the proposed amendments for toxic substances and log hauling. **ACTION**: Gord is to respond to WorkSafeBC that we agree with the amendments as proposed by WorkSafeBC
9. **Drax Explosions at Immingham and Liverpool.** Gord shared the safety briefing notes. Committee members were cautioned to pay extra attention to housekeeping to prevent metallic tramp material from contaminating pellet cargoes. No further action required on this item.
10. **Locally Available Nitrogen Initiative.** **ACTION**: Fahimeh and Scott will each share findings on storage options and costs.

11. **Forest Industry Forum.** Steve M. gave an update on the forest industry forum made up of BC Forest Safety Council, WorkSafeBC, the Sawmill Sector and the Pellet Sector. There are no new initiatives at this time.
ACTION: Steve will give a verbal report following the fall meeting.

12. **Safety Sharing – ACTION:** John Stirling will do the safety sharing in August

Next Meeting

Next meeting is scheduled for Wednesday, August 14, 2019 at 11:00 a.m. Pacific Time.

Review of Proposed Amendments by Gordon Murray
July 16, 2019

OHS Regulation Part 6: Specific Substances

- Relates to pesticides that are toxic to mammals.
- Areas applied must be marked with signs.
- Relevant employees must be educated on the hazards.
- Must comply with safety information on the label
- Must comply with the restricted entry interval stated on the label.

Recommendation: agree to proposed amendment

OHS Regulation Part 26: Forestry Operations and Similar Activities, sections 26.1, 26.67, 26.68, 26.69

- Relates to log hauling
- Must have communication between log loader and truck
- Workers must be in safe position during loading
- Workers must not stand on the cab platform or between the cab and a log being loaded.
- Logs must be stable prior to wrappers being applied.
- Bottom tier of logs must be laid tight to minimize slack in the stake cables.
- Bottom tier and side rows of logs must extend beyond front and rear stakes by at least 30 cm on compensating reach trailers and by 15 cm on other trailers.
- A short log must not be placed above top of stakes
- Side logs must not be higher than stakes.
- Worker must not place own weight on a log load.
- Limbs must not extend outside the load.
- Must use two wrappers unless transporting off road and all logs are below the stakes and a written risk assessment has been completed.
- Reasonable requirements for a written risk assessment are set out.
- Wrappers or tiedowns must be made and tested according to national standards
- Removing tiedowns must be done according to written safe work procedures.
- Must use a removal station to remove wrappers... or logs must be otherwise restrained to prevent them from falling during removal.
- Removal station must be certified by a professional engineer.

Recommendation: agree to proposed amendment

Briefing Note

Prepared for: WPAC SC members

Date: July 17, 2019

Prepared by: Dustin Meierhofer

Topic: Plant Operator Training

Background: Pellet plant operators fill a critical role with regards to plant operations and safety. Given this, it is vital that operators have the skills, knowledge and attributes to efficiently and effectively perform their duties. Currently there is no training or assessment standard within the industry or consistent approach to addressing training and assessment of plant operators. As a result WPAC has initiated work to develop a plant operator training and assessment standard with support materials which can be utilized by organizations to supplement their current training programs or implemented in whole for those that do not currently have training and assessment programs in place.

Current status:

- Proposal reviewed and approved,
- Contractor selected,
- Coordinator and support staff identified,
- Budget reviewed and approved,
- Timelines identified,
- Subject matter experts identified,
- Date for initiating stage 1 determined,
 - Aug 12th - Develop Occupational Analysis Chart and Description



From: Colman, Jenny Jenny.Colman@worksafebc.com

Subject: HMI workshop

Date: July 11, 2019 at 10:20 AM

To: Scott Bax Scott.Bax@pinnaclepellet.com, gord@gordonmurray.ca

Cc: Martin, Megan Megan.Martin@worksafebc.com, Pawlowski, Tom Tom.Pawlowski@worksafebc.com, Harkness, Gordon Gordon.Harkness@worksafebc.com

JC

Hello Scott and Gordon,

Hope you're both having a good summer...

Just wanted to follow up with you about an HMI session in the fall for the pellet sector. I connected with Jamie Errington from HCS (Human Centered Solutions) as well as Brain Grantham from West Fraser who is had some early positive results from evaluating their HMI systems. I will be speaking to Brian next week but so far he's willing to speak to your group about his experiences from an industry perspective if that's of interest to you

In terms of content, Jamie thought that the following would be worthwhile:

- *Situation Awareness & Information Processing*
- *Case Study Impact Example*
- *HMI Design Practices*
 - o *Display Levels*
- *HMI Design Practices cont'd*
 - o *Visual Clutter & Situation Awareness*
 - o *Navigation & Interaction*
- *Working Examples from Pellet Industry*
 - o *In small groups – take current Pellet display example(s) – critique and provide alternative layout and presentation ideas*
 - *Present findings to the group*

This would be over 6-8 hours but it could be shortened to four hours if you preferred to offer a half day. Ideally, if it's possible to acquire HMI display examples from a variety of sites that could be used in the workshop that would make the content directly relevant.

A few questions if you'd like to proceed:

- Did you envision holding the session in PG or Richmond?
- Do you have a date in mind? (Sometime Nov?)
- Any idea about how many people might attend the workshop?
- Would Jamie need to submit a proposal to the Wood Pellet Association?

I will be away for the first three weeks of August. If there's an opportunity to connect before the end of July I can set up a brief teleconference.

Thank you for your consideration for this session,

Chat soon,

Jenny

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Safety Bulletin



Explosion within Siwertell Continuous Ship Unloader at Immingham Renewable Fuel Terminal

Introduction

At approximately 20:00 on 27-June ABP reported an explosion to one of their two Siwertell Continuous Ship Unloader (CSU). The explosion originated in the start of the horizontal arm, after the screw section of the machine, and propagated along the vertical section. The blast panels of the CSU were blown out as designed and the Fike suppression system then controlled the blast. The driver of the CSU and all stevedores were unhurt in this incident.



Siwertell CSU – image prior to incident

Investigation Findings

ABP and Siwertell have investigated the cause of the explosion with contamination from a piece of wire reinforced rubber considered the most likely cause. The material shown here was removed by hand, and by the port's magnetic separation system during the discharge of the vessel.



Contamination from the vessel

Learning Outcomes

Drax consider this to be a very serious incident and remind all suppliers of Biomass to ensure that all house-keeping procedures are followed, regular equipment inspections take place and cargo supervisors be reminded of the damage and risk that contamination may cause.



One Safe Drax
Everyone, every day, safe and well.

Explosion within Siwertell Continuous Ship Unloader (“CSU”) at Peel Ports Liverpool terminal

Introduction

Whilst discharging from No. 1 hold at 14:03 on 4th July a blast event occurred at the base of No. 1 CSU. This resulted in the functioning of blast panels and the activation of the Fike slam shut valve to contain the explosion.

Emergency services were called to attend due to smoke coming from the dust plant and conveyor system after the blast event and quickly brought this under control.

No-one was injured in the incident.

Investigation Findings

Two shovel heads were removed from the screw section of the No. 2 CSU prior to the blast event.

The ~20cm rusted metal thread/nut shown right was removed from the CSU when material was cleared after the Fike system deployed.

Examination of this contamination shows markings from the vertical screw where it is believed to have lodged creating the spark.

Learning Outcomes

Drax are very concerned that this incident took place so soon after the similar explosion in Immingham (bulletin 19-010) and the root cause of contaminated cargo appears consistent. All Suppliers and Vessel Owners are reminded that any foreign material within biomass cargoes is a safety risk, and all steps should be taken to eradicate opportunities for contamination to enter cargoes.



Biomass discharge berth / CSUs - Liverpool



Shovels removed prior to the blast event, and tramp metal found after the incident believed to be the cause