

## MacDiarmid, Margaret LCTZ:EX

---

**From:** Greer, David GCPE:EX  
**Sent:** Saturday, January 21, 2012 1:06 PM  
**To:** MacDiarmid, Margaret LCTZ:EX; McLaughlin, Joel G LCTZ:EX; Plant, Graham LCTZ:EX; Henderson, Kim N LCTZ:EX; Walman, Barbara J. LBR:EX  
**Cc:** Macnaughton, Jason GCPE:EX  
**Subject:** Fw: TNO: Mill explosion like 'Dante's Inferno'

Just heard from WS on this, they are starting to get a lot of calls from media looking for details on the incident and safety record of company etc. They are having problems getting proper info on numbers as the injured workers have been transported to different places and then on to others so the count is difficult, their estimation is about 17 workers and likely 2 fatalities. They note media is frustrated. Many of the workers were FN so they are reaching out to the community to find out who may be missing. Other complications involve the fire itself still burning and frozen pipes. I'll keep you posted as I find out more.

Barbara I think Roberta was going to call you on this as well.

David

---

**From:** [tno@gov.bc.ca](mailto:tno@gov.bc.ca) [mailto:[tno@gov.bc.ca](mailto:tno@gov.bc.ca)]  
**Sent:** Saturday, January 21, 2012 11:22 AM  
**Subject:** TNO: Mill explosion like 'Dante's Inferno'

s3

### TNO...

This e-mail is a service provided by Today's News Online and is only intended for the original addressee. All content is the copyrighted property of a third party creator of the material. Copying, retransmitting, redistributing, selling, licensing, or emailing the material to any third party or any employee of the Province who is not authorized to access the material is prohibited.

## MacDiarmid, Margaret LCTZ:EX

---

**From:** Greer, David GCPE:EX  
**Sent:** Tuesday, January 24, 2012 6:34 PM  
**To:** MacDiarmid, Margaret LCTZ:EX; McLaughlin, Joel G LCTZ:EX; Plant, Graham LCTZ:EX  
**Subject:** Fw: Burns Lake Situation Report - January 24, 2012  
**Attachments:** Burns Lake - Situation Report (January 24 2012) 3.docx; EMBC - Burns Lake Mill Fire - Overarching KMs - 24Jan12.docx; EMBC - Burns Lake Mill Fire - Ministry KMs - Long Version - 24Jan12.docx; Burns Lake Map B.docx; Burns Lake Images.docx

---

**From:** Curtis, David SG:EX  
**Sent:** Tuesday, January 24, 2012 06:32 PM  
**To:** Dyble, John C PREM:EX; Hayden, Dana JTI:EX; Milburn, Peter R FIN:EX; Sieben, Mark MSD:EX; MacDougall, Michael HLTH:EX; Mentzelopoulos, Athana GCPE:EX; Sweeney, Neil PREM:EX; Denlinger, Becky SG:EX  
**Cc:** Stewart, Michelle GCPE:EX; Gordon, Matt GCPE:EX; Mader, Susan GCPE:EX; Heiman, Carolyn GCPE:EX; Greer, David GCPE:EX; Crebo, David GCPE:EX; Sitter, Donna GCPE:EX; Bates Gibbs, Bonnie GCPE:EX; Gleeson, Kelly T GCPE:EX; Wilkie, Maria GCPE:EX; Adair, Marisa GCPE:EX; McCaffrey, Julianne GCPE:EX; Schollen, Tasha GCPE:EX  
**Subject:** Burns Lake Situation Report - January 24, 2012

Please find the Burns Lake Situation Report and associated key messaging for January 24<sup>th</sup> attached. Additional materials have also been provided for background context.

The Situation Report will be distributed by the end of day, daily. However, given tomorrow's meeting at 09:00 if new information becomes available an additional update will be provided.

All materials provided by the participating ministries have been included.

### Situation Report

<<Burns Lake - Situation Report (January 24 2012) 3.docx>>

### Key Messages

<<EMBC - Burns Lake Mill Fire - Overarching KMs - 24Jan12.docx>> <<EMBC - Burns Lake Mill Fire - Ministry KMs - Long Version - 24Jan12.docx>>

### Background Context

#### Maps

<<Burns Lake Map B.docx>>

#### Images

<<Burns Lake Images.docx>>

Regards,

David Curtis, MA, MPA

Executive Director, Strategic Business Services

Emergency Management BC  
Ministry of Public Safety and Solicitor General

2nd Floor, 525 Fort Street, Victoria

(250) 953-4034



**Confidential  
ISSUES NOTE**

**MINISTRY OF LABOUR**

**DATE: JANUARY 22, 2012**

**MINISTER RESPONSIBLE: HON. MARGARET  
MACDIARMID**

**CREATED BY: DONNA FREEMAN**

**WORK SAFE BC**

**WORKING TO MAKE A DIFFERENCE**

**BABINE FOREST PRODUCES  
EXPLOSION**

**KEY FACTS REGARDING THE ISSUE:** On Friday January 20, 2012, the Babine Forest Products Mill in Burns Lake experienced a devastating explosion that left numerous workers injured and two workers missing. WorkSafeBC dispatched 4 officers that evening and currently has numerous investigations and prevention officers in the community, including an engineer and a claims team.

The RCMP remain in control of the site and have issued a news release indicating they will not release the site until they have concluded there is no criminality involved; if remains are found, they will then release the site to the BC Coroner's Service; and then turn it over to WorkSafeBC.

WorkSafeBC has mobilized a multi-jurisdictional team of prevention, enforcement, investigations and claim staff who will be in the area for the days/weeks to come. Our first priority is to address the needs of the injured workers, the families and the community.

**ADVICE AND RECOMMENDED RESPONSES**

- WorkSafeBC officers were dispatched immediately to the area and we will continue to have a presence for the foreseeable future.
- The RCMP is leading the investigation.
- WorkSafeBC officers have met the employer/owner.
- WorkSafeBC will begin a formal investigation when the RCMP indicates it has concluded their investigation and it is appropriate for us to do so, and in the meantime WorkSafeBC staff are working closely with their RCMP counterparts.
- WorkSafeBC claim staff and special care services staff worked through the weekend, attending at hospitals where workers were transported, working with families to assist them with information and support.
- The RCMP have indicated approximately 18 workers were injured and two remain unaccounted for. We also anticipate the potential of post traumatic stress injuries from the workers, emergency responders, and healthcare workers.
- WorkSafeBC officers have offered critical incident response assistance to these parties.
- WorkSafeBC officers will be liaising with the two local First Nations groups; many of the workers at the mill were members of First Nations communities. However, many of the national and local First Nations' leaders are currently meeting with the Prime Minister.
- Our first priority is meeting the needs of the workers and the families affected by this devastating event.
- The BC Safety Authority also has jurisdiction (boilers, gas and electrical issues) and has made contact with WorkSafeBC.
- The safety/inspection history of any employer is part of any investigation and



WorkSafeBC is reviewing the safety history at this mill and working closely with RCMP authorities.

## Background

- The mill is majority owned by Hampton Lumber Mills (Oregon); 11% owned locally.
- The sawmill is located 220 km from Prince George on the East side of Burns Lake – approximately 8 km from Burns Lake and employs approximately 250 workers.
- The evening shift had approximately 25 workers on-site.
- Hampton Mills sent its executive team to the area on Saturday.

## Initial Incident Details

- 20:15 Friday January 20, 2012
- Massive explosion and fire
- Preliminary (witnesses) reports of the smell of gas earlier in the day

## WorkSafeBC Response

- Approximately 22:00 the incident is reported to the WorkSafeBC after-hours line.
- A second report is received from Prince George RCMP shortly after.
- The Regional Prevention Manager in Prince George initially dispatched four officers to the site.
- Throughout Saturday Prevention Officers collected preliminary site information from the perimeter – but could not access accident site due to fire.
- Prevention Officers collected injured worker information from the employer and other community contacts and liaised with our compensation and special care services staff.

## Injury Reports

- Two workers remain missing and are presumed deceased.
- Information is that 18 people initially taken to hospitals in Burns Lake, Smithers, Fraser Lake, and Prince George.
- At present, five workers have been discharged from hospital.
- Workers who were seriously injured were airlifted to various hospitals; two are currently in Edmonton, four in Vancouver, four in Prince George. The remaining workers are either in local hospitals or have been discharged.

## Inspectional History and Prevention Inputs

- Early 2000 – penalty was imposed under different ownership – related to logging truck fatality.
- 2011 Fire – investigated by the BC Safety Authority as per their jurisdiction. There were no injuries, the employer conducted an investigation.

- Regional WorkSafeBC prevention officers understand that the mill was upgrading master control circuit panels (on off switches and lights) and that during mechanical work a fire started and was confined to a smaller area.
- 2011 - 7 inspections, 4 orders:
  - 1 for guarding equipment
  - 2 logging related
  - 1 for pine dust
- There was one inspection in 2011 as a result of an action request (eye wash stations); additional contact was planned work. The mill was in compliance and no orders were issued.

#### Unknowns and Potentials

- We anticipate there may be psychological trauma claims for those workers who were on-site or who responded, but were not physically injured.
- Support to First Responders through critical incident to be offered early in the week through Prevention Officers making contact with local fire chiefs.
- This employer was the primary employer in the community and economic activity surrounding this mill
- Vocational Rehabilitation (VR) claims may surface due to the circumstances and we may experience an increase in VR and other claims as they may re-open due to on-going needs. We are well-prepared to assist.

CONTACT: DONNA FREEMAN, DIRECTOR MEDIA RELATIONS 604 276-3141

PROGRAM AREA CONTACT:

Minister's Office	Program Area	Deputy	Comm. Director

**MINISTRY OF PUBLIC SAFETY AND SOLICITOR GENERAL  
EMERGENCY MANAGEMENT BC (EMBC)  
SITUATION REPORT**

**PREPARED FOR: John Dyle, Deputy Minister to the Premier  
FOR INFORMATION**

**Event Name: Burns Lake (Babine Forest Products) Mill Explosion and Fire**

**EVENT CONTEXT:**

On Friday, January 20, 2012, a fire occurred near Burns Lake, BC, at Babine Forest Products. The explosion and fire resulted in the loss of two lives and injured 19 others. The event resulted in the complete loss of the sawmill. However, some facilities including the planer mill and drying kilns are reportedly intact. The event is an industrial accident with the potential for insurable losses (which have not yet been determined).

The mill is located on First Nations' land and is the largest employer in the area employing 252 full time employees and 17 part-time employees. Ownership of the facility is shared between Hampton Affiliates from Portland Oregon (~90%) and the Babine First Nations (~10%).

**ON-SITE AND COMMUNITY SITUATION:**

- The RCMP has been working with engineers and WorkSafe BC to ensure the site is rendered safe.
- The BC Coroners Service has responsibility for the accident site under the provisions of the *BC Coroners Act* due to the loss of life.
- A community meeting was held in Burns Lake last night with representation from the Northern Health Authority; Village of Burns Lake Fire Chief; RCMP; CEO of the mill; Mayor of Burns Lake; MLA John Rustad, Chief of Babine Lake First Nation Wilf Adams; Regional Coroner and WorkSafe BC. The meeting was reportedly positive overall with some concerns regarding perceived delay of search and rescue operations by the RCMP and local fire department.

not responsive



not responsive

- Onsite Investigations and Provincial Activities:
  - RCMP: Have turned the site over to the Coroner's Service and WorkSafe BC is assisting them to ensure safe access at the site; they are also actively initiating their investigation, meaning they will be arranging interviews of pertinent parties and accessing the site (limited until the Coroner concludes its work).
  - BC Coroner's Service (EMBC): Remains on site and is leading the recovery, identification of remains and cause of death.
  - Office of the Fire Commissioner (EMBC): Currently on site and is assisting with the investigation in conjunction with the RCMP and the insurer's agents.
  - WorkSafe BC: Has dispatched a team of prevention, enforcement, investigations and claim staff to the site. This team is providing critical ground-level support for the workers and their families, and will be there for the days and weeks to come.
  - BC Safety Authority: Has staff on site providing technical electrical, gas and boiler expertise.
  - Ministry of Forests, Land and Natural Resources (FLNRO): Has a district office in Burns Lake and staff are fully engaged.

not responsive

Pages 9 through 10 redacted for the following reasons:

-----

not responsive

Date: January 24, 2012

## **Burns Lake (Babine Forest Products) Mill Explosion & Fire OVERARCHING MESSAGING – HIGH LEVEL**

*(NOTE: see additional messaging document for detailed responses for each area)*

not responsive

### **FYI – current investigations:**

- RCMP: Conducting a criminal investigation, soon to release the site to other entities.
- BC Coroner's Service: On site assisting with recovery and identification of remains.
- Office of the Fire Commissioner: On site assisting with the investigation into cause in conjunction with the RCMP and the insurer's agents.
- WorkSafe BC: Undertaking a review following the RCMP's investigation.
- BC Safety Authority:



# **Burns Lake Response**

## **Rolling messaging – Cross Ministry**

### **(Long version)**

#### **Key Points:**

- Our first priority is meeting the immediate needs of the community.
- The province is committed to supporting the community as we look to the future.

#### **EMERGENCY RESPONSE:**

##### **PSSG**

- The Ministry is present in Burns Lake to support the emergency and recovery effort.
- Staff from the Fire Commissioner's Office and the BC Coroner's Office are present, and working closely with RCMP to determine the cause of the blaze.
- RCMP continue to work with engineers and WorkSafe BC to ensure the site is rendered safe.
- Victims services supports are being provided via RCMP Burns Lake Detachment.

#### **WORKSAFEBC'S RESPONSE:**

- WorkSafeBC has dispatched a team of prevention, enforcement, investigations and claim staff to the site.
- This team is providing critical ground-level support for the workers and their families, and will be there for the days and weeks to come.
- WorkSafeBC will begin a formal investigation when the RCMP has concluded their investigation. In the meantime, WorkSafeBC staff are working closely with their RCMP counterparts.
- It would be inappropriate for me to speculate on the cause of this accident at this time.

#### **COMPANY'S HISTORY:**

- The safety and inspection history of any employer is part of any investigation.
- WorkSafeBC is reviewing the safety history at this mill and working closely with RCMP authorities.

not responsive

Pages 13 through 17 redacted for the following reasons:

-----

not responsive

## MacDiarmid, Margaret LCTZ:EX

---

**From:** Greer, David GCPE:EX  
**Sent:** Wednesday, May 2, 2012 7:21 PM  
**To:** Dick, Joan L LCTZ:EX; Plant, Graham LCTZ:EX; MacDiarmid, Margaret LCTZ:EX; Henderson, Kim N LCTZ:EX; Walman, Barbara J. LBR:EX  
**Cc:** Macnaughton, Jason GCPE:EX  
**Subject:** Fw: Joint Industry Communique on Mill Safety  
**Attachments:** INDUSTRY COMMUNIQUE ON MILL SAFETY.pdf  
  
**Importance:** High

---

**From:** Thomas, Vivian P GCPE:EX  
**Sent:** Wednesday, May 02, 2012 06:19 PM  
**To:** Macnaughton, Jason GCPE:EX; Greer, David GCPE:EX  
**Cc:** Crebo, David GCPE:EX  
**Subject:** FW: Joint Industry Communique on Mill Safety

Fyi

---

**From:** Kennedy, Christine [<mailto:Christine.Kennedy@canfor.com>]  
**Sent:** Wednesday, May 2, 2012 6:16 PM  
**To:** [P.Bell@leg.bc.ca](mailto:P.Bell@leg.bc.ca); Strongitharm, Bruce FLNR:EX; Southern, Evan FLNR:EX; Ehl, Cameron JTI:EX; Thomas, Vivian P GCPE:EX; Konkin, Doug FLNR:EX; Hayden, Dana JTI:EX  
**Subject:** Fw: Joint Industry Communique on Mill Safety  
**Importance:** High

Attached is a joint communique released late this afternoon by BC's major forest companies and associations regarding mill safety.

This went to the media a short time ago, so we wanted to let you know. If anyone has questions, please give me a call at s22

Christine Kennedy  
Canfor

---

**From:** Stavness, Corinne  
**Sent:** Wednesday, May 02, 2012 04:10 PM  
**To:** 'ian.fillinger@interfor.com' <[ian.fillinger@interfor.com](mailto:ian.fillinger@interfor.com)>; 'kevin.horsnell@conifex.com' <[kevin.horsnell@conifex.com](mailto:kevin.horsnell@conifex.com)>; Noel Campbell ([NoelCampbell@HamptonAffiliates.com](mailto:NoelCampbell@HamptonAffiliates.com)) <[NoelCampbell@HamptonAffiliates.com](mailto:NoelCampbell@HamptonAffiliates.com)>; 'BruceMallory@HamptonAffiliates.com' <[BruceMallory@HamptonAffiliates.com](mailto:BruceMallory@HamptonAffiliates.com)>; Rick Jeffery ([Jeffery@coastforest.org](mailto:Jeffery@coastforest.org)) <[Jeffery@coastforest.org](mailto:Jeffery@coastforest.org)>; 'alan.potter@fpinnovations.com' <[alan.potter@fpinnovations.com](mailto:alan.potter@fpinnovations.com)>; 'hank.ketcham@westfraser.com' <[hank.ketcham@westfraser.com](mailto:hank.ketcham@westfraser.com)>; 'duncan.davies@interfor.com' <[duncan.davies@interfor.com](mailto:duncan.davies@interfor.com)>; 'Michelle Keagan' <[Michelle.Keagan@tolko.com](mailto:Michelle.Keagan@tolko.com)>; 'Helen Nemeth' <[Helen.Nemeth@tolko.com](mailto:Helen.Nemeth@tolko.com)>; 'brad.thorlakson@tolko.com' <[brad.thorlakson@tolko.com](mailto:brad.thorlakson@tolko.com)>; 'tmogus@dunkleylum.com' <[tmogus@dunkleylum.com](mailto:tmogus@dunkleylum.com)>; 'allan@cofi.org' <[allan@cofi.org](mailto:allan@cofi.org)>; 'mauch@cofi.org' <[mauch@cofi.org](mailto:mauch@cofi.org)>; 'ddemens@westernforest.com' <[ddemens@westernforest.com](mailto:ddemens@westernforest.com)>; 'dgammiero@westernforest.com' <[dgammiero@westernforest.com](mailto:dgammiero@westernforest.com)>; Kayne, Don; Kerry.Douglas@westfraser.com <[Kerry.Douglas@westfraser.com](mailto:Kerry.Douglas@westfraser.com)>; 'ted.seraphim@westfraser.com' <[ted.seraphim@westfraser.com](mailto:ted.seraphim@westfraser.com)>; Calabrigo, David; Cook, Alistair; Burton, Heather; 'ray.ferris@westfraser.com' <[ray.ferris@westfraser.com](mailto:ray.ferris@westfraser.com)>; Kennedy, Christine; Chang, Arlene; 'kari.mcdougall@westfraser.com'



<kari.mcdougall@westfraser.com>; 'Jim.Lake@ainsworth.com' <Jim.Lake@ainsworth.com>; 'Gagnon@coastforest.org' <Gagnon@coastforest.org>; 'Rob Novak' <rnovak@dunkleylumber.com>; 'ken.shields@conifex.com' <ken.shields@conifex.com>  
**Cc:** 'JBulcock@westernforest.com' <JBulcock@westernforest.com>; 'lorraine.ducharme@confiex.com' <lorraine.ducharme@confiex.com>; 'jgiene@lakelandmills.bc.ca' <jgiene@lakelandmills.bc.ca>; 'morrisettinger@hamptonaffiliates.com' <morrisettinger@hamptonaffiliates.com>; 'ryan.johnson@tolko.com' <ryan.johnson@tolko.com>; 'ed.ma@tolko.com' <ed.ma@tolko.com>; 'mmeyer@carrierlumber.bc.ca' <mmeyer@carrierlumber.bc.ca>; 'david.murray@interfor.com' <david.murray@interfor.com>; Butow, Gus; 'brad.evans@sinclair.com' <brad.evans@sinclair.com>; Grimm, Mike; Coburn, Kathy; 'don.banks@tolko.com' <don.banks@tolko.com>; greg.stewart@sinclar.com <greg.stewart@sinclar.com>

**Subject:** Joint Industry Communique on Mill Safety

Attached is the joint communiqué as approved at today's meeting.

Corinne Stavness | Manager, Public Affairs

T: 604.661.5393 | C: s22, s17

Canadian Forest Products Ltd. 100-1700 West 75th Ave, Vancouver, BC V6P 6G2

[www.canfor.com](http://www.canfor.com)

## MacDiarmid, Margaret LCTZ:EX

---

**From:** Plant, Graham LCTZ:EX  
**Sent:** Tuesday, May 15, 2012 5:20 PM  
**To:** MacDiarmid, Margaret LCTZ:EX  
**Subject:** RE: CBC: Weekes: Ignition source linked to specific areas

Here is the (lengthy) update that is posted on their website:

[http://www.worksafebc.com/news\\_room/features/2012/assets/pdf/SawmillOrders.pdf](http://www.worksafebc.com/news_room/features/2012/assets/pdf/SawmillOrders.pdf)

It is dated May 11, so I will find out when they were planning on sending out another update.

-G

---

**From:** MacDiarmid, Margaret LCTZ:EX  
**Sent:** Tuesday, May 15, 2012 5:17 PM  
**To:** Plant, Graham LCTZ:EX  
**Subject:** Fwd: CBC: Weekes: Ignition source linked to specific areas

Hi Graham,

Could you, or someone, please ask WSBC for an update regarding the inspections to date. I think they said they would be done by the end of last week but it sounds like that is not the case. Maybe check the website first as there could be a summary there. I'm not looking for anything too fancy.

Thank you,  
Margaret

Sent from my iPad

Begin forwarded message:

**From:** "Today's News Online GCPE:EX" <[tno@gov.bc.ca](mailto:tno@gov.bc.ca)>  
**Date:** 15 May, 2012 7:46:10 AM PDT  
**Subject:** CBC: Weekes: Ignition source linked to specific areas

s3

TNO...

This e-mail is a service provided by Today's News Online and is only intended for the original addressee. All content is the copyrighted property of a third party creator of the material. Copying, retransmitting, redistributing, selling, licensing, or emailing the material to any third party or any employee of the Province who is not authorized to access the material is prohibited.

## MacDiarmid, Margaret LCTZ:EX

---

**From:** Greer, David GCPE:EX  
**Sent:** Tuesday, May 8, 2012 9:17 AM  
**To:** MacDiarmid, Margaret LCTZ:EX; Dick, Joan L LCTZ:EX; Henderson, Kim N LCTZ:EX; Plant, Graham LCTZ:EX; Walman, Barbara J. LBR:EX  
**Subject:** FW: BCSA order

FYI

-----Original Message-----

**From:** Ash, Christine GCPE:EX  
**Sent:** Tuesday, May 8, 2012 8:43 AM  
**To:** Greer, David GCPE:EX  
**Cc:** Woolley, Paul GCPE:EX; Beaupre, Darren GCPE:EX  
**Subject:** RE: BCSA order  
**Importance:** High

David:

The BC Safety Authority's Provincial Safety Manager is finalizing a safety order this a.m. and will be releasing it which will remind all sawmill owners and operators to follow the Safety Standards Act in terms of operating electrical equipment. It's simply a precautionary measure reminder.

When we get a copy of it, we will share with you.

As well, they are working on a NR that they hope to push out later this a.m. in support of this safety order. That too, we will share with you.

Chris Ash  
Communications Manager  
Ministry of Energy & Mines  
ph: 250-952-0623  
cell: s22, s17  
Mail to: [christine.ash@gov.bc.ca](mailto:christine.ash@gov.bc.ca)

-----Original Message-----

**From:** Greer, David GCPE:EX  
**Sent:** Monday, May 7, 2012 6:20 PM  
**To:** Woolley, Paul GCPE:EX; Ash, Christine GCPE:EX  
**Subject:** BCSA order

Have you folks heard anything about the BC Safety Authority issuing an order to sawmills tomorrow?



## MacDiarmid, Margaret LCTZ:EX

---

**From:** Dick, Joan L LCTZ:EX  
**Sent:** Tuesday, April 24, 2012 4:56 PM  
**To:** MacDiarmid, Margaret LCTZ:EX  
**Cc:** Plant, Graham LCTZ:EX  
**Subject:** FW: April 25 Meeting Notes.docx  
**Attachments:** April 25 Meeting Notes.docx

Minister:

Will leave a hard copy on your chair as well.

J.

---

**From:** Henderson, Kim N LCTZ:EX  
**Sent:** Tuesday, April 24, 2012 4:50 PM  
**To:** Dick, Joan L LCTZ:EX  
**Cc:** Plant, Graham LCTZ:EX  
**Subject:** April 25 Meeting Notes.docx

Draft notes for the Minister for the meeting tomorrow. I have confirmed with Dave Anderson what items he will speak to.

Let me know if there is anything else you need.

k.

**MINISTER MARGARET MACDIARMID**

**MEETING NOTES**

**APRIL 25, 2012**

Welcome

- Thank everyone for attending, particularly on short notice.
- All here due to two incredibly tragic incidents at sawmills in British Columbia.
- It is extraordinary to me that two mills in British Columbia – in Burns Lake and in Prince George – would see sawmill blast accidents in the span of four months
- It's unacceptable for a tragedy like this to happen. It's devastating for everyone. And, we owe it to those families to get all the answers. I promise you we will do everything we can to uncover the facts about these accidents.
- We all share our deepest sympathies for the workers and families impacted, in particular for those who have lost loved ones.
- We also share a concern and a responsibility for workers in mills across British Columbia. We would want to do everything we can to ensure their safety.
- I hope that in the spirit of partnership today we can share our concerns but also our ideas on how we can ensure safety, and reassure current workers that all that can be done is being done.
- I would like to start by asking everyone to introduce themselves.

### *General Information on Worker Safety*

- British Columbia's employment standards and occupational health and safety regulations are comparable with other jurisdictions in Canada and are backed up by some of the highest penalties in the country.

### *WorkSafeBC stats – historical comparisons*

- Since 1990, B.C.'s injury rate has decreased from 6.7 to 2.36\*.  
(\*Injury rate is based on number of injuries per 100 person years of employment)
- Since 1990, there has been a 57% decrease in the number of traumatic workplace fatalities.
- Since 1990, there has been a 15.9% decrease in the annual number of worker fatalities.
- Injured worker benefit rates are among the highest in North America (workers receive 90% of net take home pay with no waiting period).

### *WorkSafeBC stats, enforcement*

- WorkSafeBC currently has 244 compliance and safety officers – a 32 per cent increase since 2004 (185 officers).
- WorkSafeBC imposed 351 penalties in 2011 – the highest number of penalties issued in more than a decade.
  - The 351 penalties represented a total amount of \$4,883,989.89 levied against 289 individual employers. Individual penalties ranged from \$700 to \$250,000.
  - Penalties are considered where an employer fails to exercise due diligence to protect the health and safety of workers at the workplace. Extraordinary penalties may be imposed where an employer has acted recklessly or willfully and a fatality or serious injury has resulted.

### *WorkSafeBC High Risk Strategy*

- WorkSafeBC continues to implement the High Risk Strategy, which was developed to focus resources on industries and employers that present the greatest risk to workers. These industries are forestry, construction, health care, manufacturing and transportation.
- The strategy includes inspection campaigns, education, awareness and consultation initiatives.

## **Plant, Graham LCTZ:EX**

---

**From:** Dick, Joan L LCTZ:EX  
**Sent:** Tuesday, May 8, 2012 10:33 AM  
**To:** MacDiarmid, Margaret LCTZ:EX  
**Cc:** Plant, Graham LCTZ:EX; Greer, David GCPE:EX  
**Subject:** FW: Safety Order and News Release  
**Attachments:** Safety Order Sawmills response form R2.pdf; News Release - Safety Order to Mills - Final.docx; Electrical Equipment Located in Sawmills \_SO-EL 2012-01\_ Final.pdf

**Importance:** High

FYI, J.

---

**From:** Myers, Tobie A MEM:EX  
**Sent:** Tuesday, May 8, 2012 10:20 AM  
**To:** Dick, Joan L LCTZ:EX  
**Cc:** Bell, Jordan MEM:EX  
**Subject:** Safety Order and News Release  
**Importance:** High

Here's the package of info going out shortly from the Safety Authority.

T.





Do it right. Stay safe.

## **BC Safety Authority issues Safety Order related to electrical equipment located in sawmills**

The BC Safety Authority (BCSA) today issued a safety order relating to regulated electrical equipment ordering sawmills to verify that they have valid operating permits in place, that proper maintenance procedures are being carried out, and that incidents are being reported as per existing BCSA directives.

This measure is precautionary and part of the BCSA's ongoing investigation into the recent explosions and resulting fires at two BC sawmills that resulted in fatalities and serious injuries to workers. This safety order supports a directive order issued last week by WorkSafeBC.

Stephen Hinde, Electrical Safety Manager at the BCSA, issued the safety order as a precautionary measure to be acted upon without delay. "Although the investigations into the two recent fatal incidents are ongoing and the causes of those incidents have not been identified, this safety order is aimed at minimizing the risk of fire or explosion related to regulated electrical equipment being a potential combustion or ignition source in wood processing operations."

Hinde explained further, "Electrical equipment is used throughout sawmills and during normal operation can create heat and electrical sparks. This could act as an ignition source for a fire or explosion, so it's important that mills ensure they are following the *Safety Standards Act*."

While this safety order is specific to owners and operators of sawmills around electrical equipment, other regulated technologies are also still under investigation at Babine Forest Products, including propane and natural gas. The BCSA is not yet prepared to rule out propane or natural gas as either an ignition or fuel source at Babine while the investigation is ongoing.

The investigation related to the Babine incident is currently in the analysis phase with no predetermined end date. A BCSA team is currently supporting the Lakeland investigation, which is in the information gathering stage. In both the Babine Forest Products and Lakeland Mills investigation, WorkSafe BC has taken the lead on site control and incident investigation.

As well as issuing this safety order, the following precautionary measures have been taken by the BCSA since the explosion at Babine in January:

- Beginning in February, gas safety officers with the BCSA conducted assessments of gas operating permits in sawmills and industrial sites across BC. This action was taken to verify valid permits, and check technical elements of the gas equipment. This review did not identify any systemic concerns.
- In early April, electrical safety officers with the BCSA began to conduct a survey of electrical operating permits at a select group of wood processing plants to assess the safety of regulated electrical equipment and the effectiveness of mandated electrical maintenance programs. It is anticipated this work will be complete in May.

Supplementing the general workplace safety measures ordered by WorkSafeBC, the following items are prescribed in the BCSA safety order (the full and complete text can be found at [www.safetyauthority.ca](http://www.safetyauthority.ca) under *Industry Alerts*.) which applies specifically to regulated electrical equipment:

1. Verify that a valid operating permit is in place.
2. Develop a process to report incidents involving electrical equipment or electrical work.
3. Report any incidents that have occurred since Jan. 1, 2010 and that have not been previously reported.
4. Verify that the interior of enclosures of electrical motor control centres, power distribution centres, or similar switchgear are clear and free of known or potential combustible or explosive materials such as wood dust.
5. Verify that electrical cabinet doors and access covers for energized electrical equipment are closed and secured.
6. Verify that ventilation systems for electrical equipment enclosures are clean, working properly and installed in accordance with the equipment manufacturer's instructions.
7. Submit a completed copy of the attached Safety Order Response Form to the BC Safety Authority no later than July 13, 2012.

The BC Safety Authority keeps people safe by promoting the safe installation and use of technical equipment. The Safety Authority also issues permits and licences, educates, and conducts on-site inspections in high-risk situations.

Media Relations  
BC Safety Authority  
778-396-2164

[media@safetyauthority.ca](mailto:media@safetyauthority.ca)

Sign up to receive an email alert when BC Safety Authority news is released. Go to  
(<http://www.safetyauthority.ca/user/register>).





## SAFETY ORDER RESPONSE FORM

Safety Order No: SO-E3 2012-01

The information on this form is collected to administer the provisions of the Safety Standards Act. If you have questions about the collection, use or disclosure of this information, contact the Records, Information and Privacy Analyst at 1-866-566-SAFE (7233).

The company and/or designated representative in receipt of a safety order must fill out and submit this form to the British Columbia Safety Authority within the timeframe stipulated on the safety order.

The following items have been completed as required in the above safety order:

### YES

- ☐ Verify that a valid operating permit is in place for the operation and maintenance of electrical equipment located at sites with a supply service at a voltage greater than 750 V or a combined electrical service capacity in excess of 250 kVA. Directive D-E3 070801 7 Electrical Operating Permit Requirements provides further details on requirements for electrical operating permits.
- ☐ Develop a process to report incidents involving electrical equipment or electrical work. Directive D-E3 070115 1 Incident Reporting Requirements With Respect To Electrical Technology provides further details on requirements for incident reporting.
- ☐ Report any incidents that have occurred since 1<sup>st</sup> January 2010 and that meet the reporting criteria of Directive D-E3 070115 1 Incident Reporting Requirements With Respect To Electrical Technology and that have not been previously reported.
- ☐ Verify that the interior of enclosures of electrical motor control centres, power distribution centres, or similar switchgear are clear and free of known or potential combustible or explosive materials such as wood dust.
- ☐ Verify that electrical cabinet doors and access covers for energized electrical equipment are closed and secured with all fasteners in place and that a process is in place to keep such fasteners closed and secure.
- ☐ Verify that ventilation systems for electrical equipment enclosures are clean, working properly and installed in accordance with the equipment manufacturer's instructions and that a process is in place to keep such systems clean and functional.
- ☐ Submit a completed copy of this Safety Order Response Form to the BC Safety Authority no later than 13<sup>th</sup> July 2012.





## SAFETY ORDER RESPONSE FORM

Safety Order No: SO-E3 2012-01

Completion Date: \_\_\_\_\_  
Month / Day / Year

Operating Company: \_\_\_\_\_

Person signifying completion  
of safety order requirements: \_\_\_\_\_  
(Please print name)

Position Title: \_\_\_\_\_

Signature: \_\_\_\_\_

Return this form to:

TBD



## SAFETY ORDER

No: SO-EL 2012-01

### ELECTRICAL EQUIPMENT LOCATED IN SAWMILLS

Date of Issue: 8<sup>th</sup> May, 2012

*This safety order is issued pursuant to section 31 of the Safety Standards Act. A person affected by this safety order may appeal this order in writing to the Safety Standards Appeal Board within 30 days. The appeal process is set out on the Safety Standards Appeal Board's website at <http://www.housing.gov.bc.ca/ssab/>. This order may not be stayed during an appeal.*

*Failure to comply with a safety order is an offence under section 72 of the Safety Standards Act.*

#### Introduction

This safety order is being issued to owners and operators of sawmills utilizing electrical equipment. Electrical equipment is a regulated product under the *Safety Standards Act*.

In the past 3 months explosions and fires at two sawmills in British Columbia have resulted in fatalities and serious injuries to workers. Previous incidents have also been identified in which wood dust has been ignited by electrical equipment.

Although the investigations into the two recent fatal incidents are ongoing and the causes of those incidents have not been identified, this Safety Order is aimed at minimizing the risk of fire or explosion related to regulated electrical equipment being a potential combustion or ignition source in wood processing operations.

#### Required Actions

Any owner or operator of a wood processing facility will take the following actions at any facility under its direction or control as soon as practicable:

1. Verify that a valid operating permit is in place for the operation and maintenance of electrical equipment located at sites with a supply service at a voltage greater than 750 V or a combined electrical service capacity in excess of 250 kVA. Directive D-E3 070801 7 Electrical Operating Permit Requirements provides further details on requirements for electrical operating permits.
2. Develop a process to report incidents involving electrical equipment or electrical work. Directive D-E3 070115 1 Incident Reporting Requirements With Respect To Electrical Technology provides further details on requirements for incident reporting.
3. Report any incidents that have occurred since 1<sup>st</sup> January 2010 and that meet the reporting criteria of Directive D-E3 070115 1 Incident Reporting Requirements With Respect To Electrical Technology and that have not been previously reported.
4. Verify that the interior of enclosures of electrical motor control centres, power distribution centres, or similar switchgear are clear and free of known or potential combustible or explosive materials such as wood dust.



## SAFETY ORDER

No: SO-EL 2012-01

5. Verify that electrical cabinet doors and access covers for energized electrical equipment are closed and secured with all fasteners in place and that a process is in place to keep such fasteners closed and secure.
6. Verify that ventilation systems for electrical equipment enclosures are clean, working properly and installed in accordance with the equipment manufacturer's instructions and that a process is in place to keep such systems clean and functional.
7. Submit a completed copy of the attached Safety Order Response Form to the BC Safety Authority no later than 13<sup>th</sup> July 2012.

If you have any questions regarding this safety order, please contact your local electrical safety officer through the BC Safety Authority call centre by phone at 1.866.566.7233 or by email at [info@safetyauthority.ca](mailto:info@safetyauthority.ca).

A handwritten signature in black ink, reading "Stephen Hinde".

Stephen Hinde, P. Eng.

Provincial Safety Manager - Electrical

### References:

SBC 2003, c. 39	Safety Standards Act
B.C. Reg. 105/2004	Safety Standards General Regulation
B.C. Reg. 100/2004	Electrical Safety Regulation
D-E3 070801 7	Electrical Operating Permit Requirements
D-E3 070115 1	Incident Reporting Requirements With Respect To Electrical Technology





## SAFETY ORDER RESPONSE FORM

Safety Order No: SO-EL 2012-01

The information on this form is collected to administer the provisions of the BC Safety Standards Act and section 26 of the Freedom of Information and Protection of Privacy Act. If you have any questions about the collection, use, or disclosure of this information, contact the Records, Information and Privacy Analyst for the BC Safety Authority at 1-866-566-7233.

The company and/or designated representative in receipt of a safety order must fill out and submit this form to the British Columbia Safety Authority within the timeframe stipulated on the safety order.

The following items have been completed as required in the above safety order:

YES

- ☐ Verify that a valid operating permit is in place for the operation and maintenance of electrical equipment located at sites with a supply service at a voltage greater than 750 V or a combined electrical service capacity in excess of 250 kVA. Directive D- E3 070801 7 Electrical Operating Permit Requirements provides further details on requirements for electrical operating permits.
- ☐ Develop a process to report incidents involving electrical equipment or electrical work. Directive D-E3 070115 1 Incident Reporting Requirements With Respect To Electrical Technology provides further details on requirements for incident reporting.
- ☐ Report any incidents that have occurred since 1<sup>st</sup> January 2010 and that meet the reporting criteria of Directive D-E3 070115 1 Incident Reporting Requirements With Respect To Electrical Technology and that have not been previously reported.
- ☐ Verify that the interior of enclosures of electrical motor control centres, power distribution centres, or similar switchgear are clear and free of known or potential combustible or explosive materials such as wood dust.
- ☐ Verify that electrical cabinet doors and access covers for energized electrical equipment are closed and secured with all fasteners in place and that a process is in place to keep such fasteners closed and secure.
- ☐ Verify that ventilation systems for electrical equipment enclosures are clean, working properly and installed in accordance with the equipment manufacturer's instructions and that a process is in place to keep such systems clean and functional.
- ☐ Submit a completed copy of this Safety Order Response Form (both pages) to the BC Safety Authority no later than 13<sup>th</sup> July 2012.





## SAFETY ORDER RESPONSE FORM

Safety Order No: SO-EL 2012-01

Completion Date: \_\_\_\_\_  
Month / Day / Year

Operating Company: \_\_\_\_\_

Person signifying completion  
of safety order requirements: \_\_\_\_\_  
(Please print name)

Position Title: \_\_\_\_\_

Signature: \_\_\_\_\_

Return this form to:

<b>by mail</b> BC Safety Authority 505 Sixth St. New Westminster, BC V3L 0E1  Attn: Safety Order	<b>by fax</b> 778-396-2064 Attn: Safety Order  <b>by email</b> <a href="mailto:info@safetyauthority.ca">info@safetyauthority.ca</a> Subject: Safety Order
--	---

## Plant, Graham LCTZ:EX

---

**From:** Dick, Joan L LCTZ:EX  
**Sent:** Thursday, April 26, 2012 4:17 PM  
**To:** Plant, Graham LCTZ:EX  
**Subject:** Fw: WorkSafeBC sawmill directive & guidelines  
**Attachments:** G5 71 (2).doc; G5 81 Combustible dust - sawmill facilities - Final - 25-Apr-12 (3).doc; SawmillDirective.pdf

FYI, J.

---

**From:** Dick, Joan L LCTZ:EX  
**Sent:** Thursday, April 26, 2012 03:58 PM.  
**To:** Southern, Evan FLNR:EX; Strongitharm, Bruce FLNR:EX  
**Subject:** FW: WorkSafeBC sawmill directive & guidelines

FYI, J.

---

**From:** Johnston, Megan [<mailto:Megan.Johnston@worksafebc.com>]  
**Sent:** Thursday, April 26, 2012 3:51 PM  
**To:** Dick, Joan L LCTZ:EX  
**Cc:** Freeman, Donna WCB:EX  
**Subject:** WorkSafeBC sawmill directive & guidelines

Please find directive and guidelines attached.

**Megan Johnston**  
Communications Officer, Media Relations  
WorkSafeBC  
t 604.214.6934

*Follow WorkSafeBC Media Relations on [Twitter](#)*

Watch WorkSafeBC's live Day of Mourning webcast on Friday, April 27 at 10:30 a.m., and be a part of the tribute to workers who have lost their lives to workplace injury and disease: [www.worksafebc.com](http://www.worksafebc.com)

## CONFIDENTIALITY DISCLAIMER

The information contained in this transmission may contain privileged and confidential information of WorkSafeBC - the Workers' Compensation Board. It is intended for review only by the person(s) named above. Dissemination, distribution or duplication of this communication is strictly prohibited by all recipients unless expressly authorized otherwise. If you are not the intended recipient, please contact the sender by reply email and destroy all copies of the original message. Thank you.



**WORKING TO MAKE A DIFFERENCE**

### **WorkSafeBC Directive Order to Sawmill Employers**

**In the past 3 months explosions and fires at two sawmills in British Columbia have resulted in fatalities and serious injuries to workers.**

**This employer is ordered to, without undue delay, at its sawmill and any related facility:**

- **undertake a comprehensive risk assessment with respect to hazards created by combustible dusts, which assessment must include a thorough inspection of the employer's facility, and**
- **develop and implement an effective combustible dust control program based on the risk assessment.**

**A WorkSafeBC prevention officer will be conducting a follow-up inspection on site no later than May 9, 2012, to evaluate the employer's actions taken immediately to fully comply with the order in the Inspection Report.**

**Failure to comply with this order without undue delay will result in further action, including possible sanctions and stop work orders. A WorkSafeBC officer will follow up on this order to evaluate compliance.**

The employer's attention is drawn to the following requirements in the Occupational Health and Safety Regulation:

#### **5.71 Flammable air contaminants**

(1) If an operation or work process produces a combustible or flammable air contaminant in concentrations that may present a risk of fire or explosion, the employer must provide a separate exhaust ventilation system for the operation or work process.

#### **5.81 Combustible dust**

If combustible dust collects in a building or structure or on machinery or equipment, it must be safely removed before accumulation of the dust could cause a fire or explosion.

#### **3.5 General requirement**

Every employer must ensure that regular inspections are made of all workplaces, including buildings, structures, grounds, excavations, tools, equipment, machinery and work methods and practices, at intervals that will prevent the development of unsafe working conditions.

A copy of OHS Guidelines G5.81 and G5.71 have been provided to this employer under separate cover.



*G5.71(3) Location and construction of dust collectors*

Issued April 27, 2010

**Regulatory excerpt**

Subsection 5.71(3) of the *OHS Regulation* ("Regulation") states:

A dust collector having an internal volume greater than 0.6 m<sup>3</sup> (20 ft<sup>3</sup>) and being used to control combustible dusts must be located and constructed so that no worker will be endangered in the event of an explosion inside the collector.

**Purpose of guideline**

This guideline explains terms used in *Regulation* subsection 5.71(3) and provides guidance for locating and constructing dust collectors used to control combustible dusts so that workers will not be endangered in the event of an explosion inside the collector.

**Background**

WorkSafeBC considers the relevant National Fire Protection Association (NFPA) standards to provide acceptable guidance with respect to combustible dust collectors. There are a series of NFPA standards that are relevant to the control of fire and explosion hazards from combustible dusts and an employer should review the standard(s) relevant to the application in question. Information in this guideline references mainly the following NFPA standards, which are available for review online at <http://www.nfpa.org/>.

*NFPA 61 Standard for the Prevention of Fires and Dust Explosions in Agricultural and Food Processing Facilities (2008)*

*NFPA 484 Standard for Combustible Metals (2009)*

*NFPA 654 Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids (2006)*

*NFPA 655 Standard for Prevention of Sulfur Fires and Explosions (2007)*

*NFPA 664 Standard for the Prevention of Fires and Explosions in Wood Processing and Woodworking Facilities (2007)*

In addition, there are specifications in the *BC Building Code* (e.g., edition 2006, articles 3.3.1.20 and 6.2.2), *BC Electrical Code Regulation (2009)* - Chapter 18, and the *BC Fire Code*, (e.g., edition 2006 article 5.3) with respect to protection from fires and explosions of combustible dust.



Employers should not rely solely on the generic information in this guideline to minimize hazards that could lead to a dust explosion. The entire relevant standard(s) or code(s) should be consulted for complete information.

**What is a “dust collector having an internal volume greater than 0.6 m<sup>3</sup> (20 cu. feet)?”**

A dust collector is one component of a dust collection system. The collection system is a pneumatic conveying system that is specifically designed to capture dust at the point of generation, sometimes from multiple pieces of equipment, and convey the particulate to a point of collection. The system includes the collection hood, conveyance ducting, and flexible hoses, exhaust fan, motor, and dust collector. The dust collector, also called an air-material separator, is a device used to separate the particulate material from the air stream, and includes but is not limited to cyclones, baghouse and media-type filter collectors, wet-type collectors, electrostatic precipitators, and enclosureless units.

A *cyclone* is defined in *NFPA 664* as a cylindrical type of dust collector used to separate particulate from the air stream by centrifugal force, having an enclosure of circular cross-section, a tangential air and material inlet, an air exhaust outlet, and a material discharge. In order to determine whether subsection 5.71(3) is applicable, the internal volume of the dust collector needs to be determined. The internal volume of a cyclone is considered to be the volume of the collector from the tangential inlet through the cylindrical and conical area, and includes the chute and dust container that holds the captured dust.

A *baghouse* dust collector is an air-material separator designed and used to remove dust from the transport air through a filter medium of suspended bags that are contained within an enclosure. The internal volume is considered to be the total volume inside the enclosure from the entrance point of the air-particle mixture, and includes the volume of the container designed to hold the captured dust.

*NFPA 664* defines an *enclosureless dust collector* as an air-material separator where filtration is accomplished by passing dust-laden air through filter media, collecting the dust on the inside of the filter media and allowing cleaned air to exit to the surrounding area (Note: See also *Regulation* section 5.70 and guideline G5.70 for information about requirements for discharged air). The filter medium is not enclosed, is hand shaken and is under positive pressure during use. Removal of the collected dust is not continuous or mechanical. The internal volume of an enclosureless dust collector is considered to be the air volume inside all the bags plus the air volume of the container designed to hold the captured dust.

If the manufacturer's specifications for a dust collector do not include the internal volume of the dust collector, this volume can be calculated from measurements of height and area.

### What is a combustible dust?

NFPA 654 defines combustible dust as a combustible particulate solid that presents a fire or deflagration\* hazard when suspended in air or some other oxidizing medium over a range of concentrations, regardless of particle size or shape. This definition replaces a previous definition that required the particles to be, on average, less than 420 micron (0.017 inch) diameter (capable of passing through a U.S. No. 40 Standard Sieve). The newer definition applies more broadly to include elongated particles such as paper dust and some agglomerates, for which particle diameter is not a useful concept.

\*NFPA Standards and this guideline use the term "deflagration." Deflagration is the propagation of a pressure wave (at a speed less than the speed of sound) from the ignition of a combustible dust, and includes both fires and explosions. An explosion can occur if the deflagration occurs in an enclosed space such as a dust collector, duct, or building.

Not all dusts are combustible. For example, substances that are stable inorganic oxides (e.g., silicates, sulphates, phosphates, and carbonates) are not combustible. Therefore dust clouds of Portland cement, sand, limestone, etc. are not combustible.

Materials that are combustible and that can give rise to dust explosions include, but are not limited to

- Food products (e.g., grain, cellulose, powdered milk, sugar, flour, starch, etc.)
- Natural organic materials (e.g., wood dust, wood flour, textiles such as cotton dust and nylon dust, biosolids, etc.)
- Synthetic organic materials (plastics such as phenolics and polypropylene, resins such as lacquer and phenol-formaldehyde, organic pigments, pharmaceuticals, pesticides, etc.)
- Coal and peat
- Metals (e.g., aluminum, magnesium, zinc, iron, etc.)

Combustible dusts have varying limits of flammability. These are usually expressed in terms of grams per cubic metre. For example, aluminum dust may be listed as requiring an airborne concentration of 30 grams per cubic metre for a combustible atmosphere to exist whereas coal dust may require 60 grams per cubic metre. A layer of dust as thin as a dime dispersed throughout a room can create an explosion hazard.

*NFPA 499 Recommended Practice for the Classification of Combustible Dusts and of Hazardous (Classified) Locations for Electrical Installations in Chemical Process Areas (2008)* includes a table of selected combustible materials. This is not a comprehensive list and a dust should be considered to be combustible unless it is known otherwise. For certain, substances that are combustible as particulates should be considered as combustible dusts. OSHA also publishes a list of substances for which there is a risk of combustible dust explosion, at <http://www.osha.gov/Publications/combustibledustposter.pdf>.



### **What is a dust explosion?**

A dust explosion/deflagration is essentially the very rapid combustion of a dust cloud or suspension of dust in air, during which heat and pressure is generated at a very high rate. The conditions necessary for an explosion are a sufficiently dense dust cloud of combustible dust in an enclosed area, adequate oxygen/air to support combustion, and an ignition source.

Dust explosions can be very destructive. Often there is a series of explosions in which the primary explosion/deflagration is relatively small. The pressure from the primary explosion can be intense enough to dislodge dust off walls, beams, ledges, machines, and other surfaces. This dislodged dust then mixes with air, creating a much larger dust cloud which can then be ignited and react explosively creating a secondary catastrophic explosion. This secondary explosion/deflagration can be much larger than the primary explosion.

### **Location and construction of dust collectors**

The guidance in this guideline is taken mainly from the five NFPA standards listed above in the Background section. Information provided here represents some of the control measures from the NFPA standards. In addition, *NFPA 69 Standard on Explosion Prevention Systems (2008)* provides information on preventing and controlling deflagrations.

The NFPA standards also contain specifications not directly related to location or construction of the dust collector (e.g., electrical protection, ventilation, control of ignition sources, spark detection and arrest, isolation devices, ductwork, partitioning, preventing dust accumulations on horizontal surfaces, sprinkler and other fire suppression systems, relief venting, etc.). These specifications are not directly related to *Regulation* subsection 5.71(3) but many are related to other regulatory requirements. Employers should not rely solely on the generic information in this guideline to minimize hazards leading to dust explosions. The entire relevant standard(s) should be consulted for complete information.

### **Location of a dust collector**

*Regulation* subsection 5.71(3) specifies that a dust collector used to control combustible dust be located so that no worker will be endangered in the event of an explosion inside the collector. Dust collectors used for collection of combustible dust are appropriately located outdoors – this is usually the preferred location with respect to compliance with this section of the *Regulation*. Under certain circumstances and conditions, it is acceptable to locate a dust collector indoors. The relevant B.C. Codes and NFPA standard(s) should be consulted for complete information on these circumstances and conditions, but some general guidance is provided here.

The *BC Fire Code* (2006) specifies in Division B Section 5.3 that a dust collector having a flow capacity greater than 0.5 m<sup>3</sup>/s be located outside of a building and

be equipped with explosion venting to the outdoors of not less than 0.1 m<sup>2</sup> of vent area for each cubic metre of dust collector enclosure volume.

The *BC Fire Code* allows a dust collector to be located inside a building if it is

- a) Provided with explosion venting to the outdoors
- b) Equipped with an automatic explosion venting system
- c) Located in a room with fire separations having a fire-resistance rating of not less than 1 hr and provided with explosion venting to the outdoors

The *BC Fire Code* also requires, when exhausted air is returned to the building, that the dust-collection system be designed so that the exhaust fan and ancillary equipment are automatically shut down in the event of a fire or an explosion inside the dust collector. Construction of a dust collector should also include isolation devices where ductwork returning to a building from the dust collector can provide a path for a fireball and a pressure wave to enter the building.

A number of NFPA standards also provide guidance for the location of a dust collector, and this guidance is acceptable as long as it does not contradict British Columbia code requirements such as the *BC Fire Code*. For example, *NFPA 61* Chapter 10 specifies location criteria for dust collectors used in **agriculture and food processing** facilities, including operations involving dry agricultural bulk materials and their by-products, and dusts that include grains, oilseeds, agricultural seeds, legumes, sugar, flour, spices, feeds, and other related materials. An outside location of the dust collector is required, with several exceptions listed in the standard.

*NFPA 484* describes specific dust collector location criteria for a number of **combustible metals** and has specific chapters for control of combustible dust hazards from alkali metals, aluminum, magnesium, niobium, tantalum, titanium, zirconium, and other combustible metals.

*NFPA 654* provides specifications for control of dust explosions from **materials not specifically addressed by another more specific NFPA standard**. This standard specifies that, where an explosion hazard exists, air-material separators be located outside of buildings. The standard provides some exceptions to this specification in Chapter 7.

*NFPA 655* provides general specifications for control of fires and explosions from processes involving **sulfur** dust, and includes specific location criteria for the dust collector.

*NFPA 664* provides specifications for selecting the location for a dust collector in **wood processing and woodworking facilities**. Outdoor locations are recommended. The standard recommends that dust collectors not be located on the roof of a building. Indoor locations are permitted by the standard under special circumstances, which are listed in the standard for enclosed and enclosureless dust collectors.



### **Construction of a dust collector**

Dust collectors used for combustible dust need to be designed and constructed entirely of non-combustible material suitable for the use intended (Note: the use of aluminum paint on the inside of a metal dust collector increases the fire hazard and should be avoided. If the aluminum flakes off or is struck by a foreign object, the heat of impact could be sufficient to cause ignition of the aluminum particle, thereby initiating a fire). However, filter bags and explosion vent panels fabricated from combustible material are acceptable. Dust collectors need to be constructed to prevent leakage of dust into the rest of the workplace and to minimize internal ledges or other points of dust accumulation (e.g., hopper bottoms should be sloped; surfaces and seams should be smooth). This is important since an accumulation of as little as 0.8 mm (1/32 inch) thick of combustible dust on horizontal surfaces (both inside and outside the dust collector) may lead to a secondary and more damaging explosion following any primary explosion. Dust collectors need to have independent supporting structures capable of supporting the weight of the collector, the material being collected, and any water from extinguishing systems that will not readily drain from the system.

*NFPA 61* Chapter 10 specifies criteria for construction of a dust collector used for **agricultural and food processing** operations.

*NFPA 484* describes construction criteria for dust collection in **metal operations**.

*NFPA 655* provides general specifications for control of fires and explosions from processes involving **sulfur** dust, and includes specific construction criteria.

*NFPA 664* describes location and construction criteria for **wood processing and woodworking** facilities (see especially section 8.2).

### **Explosion relief venting and suppression**

Explosion relief vents are panels or doors that are deliberate points of weakness. If they are of the correct size and construction, and properly positioned, they can help to safely vent an explosion in a dust collector so that workers are not endangered. These relief vents should be designed and constructed by experts. *NFPA 68 Standard on Explosion Protection by Deflagration Venting (2007)* addresses the design, location, installation, maintenance, and use of devices and systems that vent the combustion gases and pressures resulting from a deflagration within an enclosure. The standard specifies that deflagration venting be arranged to avoid injury from the vent discharge and that the material discharged from an enclosure during the venting of a deflagration be directed outside to a safe location.

*NFPA 654* includes information on deflagration venting, suppression systems, mechanical and chemical isolation systems, flame front diverters, and abort gates to lower the risk to workers in the event of an explosion inside a dust collector.

*G5.81 Combustible dust – Sawmill facilities*

Issue April 25, 2012

**Regulatory excerpts**

**Section 5.81 of the OHS Regulation ("Regulation")**  
**Combustible dust**

If combustible dust collects in a building or structure or on machinery or equipment, it must be safely removed before accumulation of the dust could cause a fire or explosion.

**Section 5.71 of the Regulation**  
**Flammable air contaminants**

- (1) If an operation or work process produces a combustible or flammable air contaminant in concentrations that may present a risk of fire or explosion, the employer must provide a separate exhaust ventilation system for the operation or work process.
- (2) Electrical components of an exhaust ventilation system required by subsection (1) must comply with Class I Division I requirements of CSA Standard C22.1-94, Canadian Electrical Code, Part 1 if the components contact the air stream.
- (3) A dust collector having an internal volume greater than 0.6 m<sup>3</sup> (20 ft<sup>3</sup>) and being used to control combustible dusts must be located and constructed so that no worker will be endangered in the event of an explosion inside the collector.

**Section 115 of the Workers Compensation Act ("Act")**  
**General duties of employers**

- (1) Every employer must
  - (a) ensure the health and safety of
    - (i) all workers working for that employer, and
    - (ii) any other workers present at a workplace at which that employer's work is being carried out, and
  - (b) comply with this Part, the regulations and any applicable orders.
- (2) Without limiting subsection (1), an employer must
  - (a) remedy any workplace conditions that are hazardous to the health or safety of the employer's workers.

**Section 3.5 of the Regulation**  
**General requirement**

Every employer must ensure that regular inspections are made of all workplaces, including buildings, structures, grounds, excavations, tools, equipment, machinery and work methods and practices, at intervals that will prevent the development of unsafe working conditions.



### Introduction

Combustible dusts are fine particles that present an explosion hazard when suspended in air under certain conditions. A dust explosion can cause catastrophic loss of life, injuries, and destruction of buildings. In many cases, employers and workers may be unaware of the potential for dust explosions, or fail to recognize the serious nature of dust explosion hazards.

This guideline provides information about the mitigation of hazards associated with combustible dusts, including the conduct of risk assessments, development of a dust control program and training of workers at workplaces. The focus of the guideline is on combustible dusts at sawmills and related facilities.

### Ventilation for flammable air contaminants

Section 5.71 of the *Regulation* provides requirements for exhaust ventilation systems and dust collection where operations or work processes present a risk of fire or explosion. Refer to G5.71(3) Location and construction of dust collectors for guidance on locating and constructing dust collectors used to control combustible dusts so that workers will not be endangered in the event of an explosion inside the collector.

### Combustible dust program

#### Hazard mitigation

Hazard mitigation strategies for combustible dust at sawmills should include the following elements discussed in more detail herein:

- Facility risk assessment
- Written combustible dust control program
- Communication of program, including training

#### Facility risk assessment

The factors that should be identified and included in assessing the potential for dust fires/explosions include the following:

- Materials that can be combustible when finely divided
- Consideration of the physical properties of dust including, moisture content, particle size and combustibility
- Processes which use, consume, or produce combustible dusts
- Open areas where combustible dusts may build up
- Hidden or enclosed areas where combustible dusts may accumulate
- Means by which dust may be dispersed in the air
- Potential ignition sources such as, hot work locations, friction points, electrical equipment, static charges, and confinement areas
- Mechanisms of dispersion of air including, discharge for saws, equipment vibration, compressed air use
- Areas with risk of secondary deflagration (adjacent dust is dispersed by initial combustion and creates conditions for rapid propagation).

#### Written combustible dust control program

The combustible dust program should be in writing and include the following elements:

- List of all combustible dust sources, locations and control equipment
- Engineering controls including,
  - Local exhaust ventilation, use of appropriate electrical equipment, grounding of material conveyance systems, and misting systems
- Housekeeping inspection schedules and procedures for preventative maintenance including inspection of
  - Equipment that may act as an ignition source (produces heat or sparks if not properly maintained)
  - Elevated horizontal surfaces such as machine tops
  - Beams, joists, purlins, ducts, pipes and cable trays
  - Vertical surfaces (walls, etc.)
  - Hidden areas
  - On the surface of, and within electrical equipment (e.g., motor control cabinets)
- Description of dust clean-up program including methods of removal such as,
  - Vacuums, compressed air, water, specialized tools
- The criteria or thresholds that have been established
  - As a guide, limit surface to accumulation of 1/16 inch or less
- Specific safe work procedures including,
  - Hot permit program, smoking control and emergency preparedness, equipment de-energized during clean-up activities
- Third party inspections (e.g., insurance inspections and findings)

### **Communication of program, including training**

The training of workers must include making workers aware of all known or reasonably foreseeable hazards to which they are likely to be exposed, and making workers aware of their rights and responsibilities under the *WCA* and the *Regulation*. The dust control program should be communicated to all workers and include training on the program elements, including hazard awareness, specific safe work procedures, hazcom documentation and emergency preparedness.

### **Further resources**

*NFPA 664 Standard for the Prevention of Fires and Explosions in Wood Processing and Woodworking Facilities (2007)*

<http://www.nfpa.org/>

OSHA - Combustible Dust National Emphasis Program

[http://www.osha.gov/pls/oshaweb/owadisp.show\\_document?p\\_table=directives&p\\_id=3830](http://www.osha.gov/pls/oshaweb/owadisp.show_document?p_table=directives&p_id=3830)

Combustible Dust: An Insidious Hazard (video)

[http://www.csb.gov/videoroom/detail.aspx?vid=30&F=0&CID=1&pg=1&F\\_All=y](http://www.csb.gov/videoroom/detail.aspx?vid=30&F=0&CID=1&pg=1&F_All=y)



## Marquis, Yvette LCTZ:EX

---

**From:** Bremner, Virginia PREM:EX  
**Sent:** Tuesday, April 24, 2012 3:56 PM  
**To:** Marquis, Yvette LCTZ:EX  
**Subject:** RE: for MacDiarmid's meeting tomorrow

Great, thanks.

---

**From:** Marquis, Yvette LCTZ:EX  
**Sent:** Tuesday, April 24, 2012 3:55 PM  
**To:** Bremner, Virginia PREM:EX  
**Subject:** for MacDiarmid's meeting tomorrow

David Anderson  
Betty Piers VP Prevention Services Worksafe  
George Morfitt  
John Allan  
Ann Mauch  
Reynold Hert  
Peter Lineen  
Steve Hunt  
Bob Matters, Chair of Safety Work Council – specializing in Sawmills  
Joan Dick  
Kim Henderson

THERE may be a few more still but will confirm tomorrow

*Yvette Marquis  
Administrative Coordinator  
to the Honourable Dr. Margaret MacDiarmid  
Minister of Labour, Citizens' Services and Open Government  
Room 346, Parliament Buildings  
Victoria, BC V8V 1X4  
Phone: 250-952-7286 Fax: 250-952-7628*

## Marquis, Yvette LCTZ:EX

---

**From:** Taylor, Diane Ruth LCTZ:EX  
**Sent:** Friday, May 25, 2012 11:12 AM  
**To:** Marquis, Yvette LCTZ:EX  
**Subject:** RE: Weyerhaeuser Canada Meeting Tues May 29

Done – will check if Kim needs staff to attend. Any materials required or is the stuff we've already prepared OK? Thanks, d

---

**From:** Marquis, Yvette LCTZ:EX  
**Sent:** Friday, May 25, 2012 10:48 AM  
**To:** Taylor, Diane Ruth LCTZ:EX  
**Subject:** FW: Weyerhaeuser Canada Meeting Tues May 29

Hi there,  
We will need Kim to attend this meeting please and whoever else she would like there. Thanks!

*Yvette Marquis  
Administrative Coordinator  
to the Honourable Dr. Margaret MacDiarmid  
Minister of Labour, Citizens' Services and Open Government  
Room 346, Parliament Buildings  
Victoria, BC V8V 1X4  
Phone: 250-952-7286 Fax: 250-952-7628*

---

**From:** Marquis, Yvette LCTZ:EX  
**Sent:** Friday, May 25, 2012 10:45 AM  
**To:** 'Michael Harrison'  
**Subject:** RE: Weyerhaeuser Canada Meeting Request

s.15

Hi Michael,  
We can do this meeting on Tuesday morning at 9:15AM in

Will you be coming with them?

*Yvette Marquis  
Administrative Coordinator  
to the Honourable Dr. Margaret MacDiarmid  
Minister of Labour, Citizens' Services and Open Government  
Room 346, Parliament Buildings  
Victoria, BC V8V 1X4  
Phone: 250-952-7286 Fax: 250-952-7628*

---

**From:** Michael Harrison [s22]  
**Sent:** Thursday, May 24, 2012 1:41 PM  
**To:** Marquis, Yvette LCTZ:EX  
**Subject:** Weyerhaeuser Canada Meeting Request

Hello Yvette,

I'm writing on behalf of Weyerhaeuser Canada to request a meeting with Labour & Citizens Services Minister MacDiarmid during the week of May 28-30. The meeting would include the following representatives of Weyerhaeuser:

- Fred Dzida, Director, Canadian Timberlands
- Rob Marshall, Manager, Princeton Timberlands
- Wayne Roznowsky, Manager of Public Affairs Canada

The meeting will focus on sawmill safety and dust control along with other forestry issues such as Weyerhaeuser's presence in BC and its future plans.

Please let me know what times and dates might be available during that week. If you require additional information please don't hesitate to contact me at s22 (M).

Sincerely,  
Michael Harrison

## Marquis, Yvette LCTZ:EX

---

**From:** Michael Harrison s22  
**Sent:** Friday, May 25, 2012 10:54 AM  
**To:** Marquis, Yvette LCTZ:EX  
**Subject:** RE: Weyerhaeuser Canada Meeting Request

Hi Yvette, that works perfectly! Yes I will be attending the meeting as well. Thanks for your help!

---

**From:** Marquis, Yvette LCTZ:EX [mailto:Yvette.Marquis@gov.bc.ca]  
**Sent:** Friday, May 25, 2012 10:45 AM  
**To:** 'Michael Harrison'  
**Subject:** RE: Weyerhaeuser Canada Meeting Request

Hi Michael, s.15  
We can do this meeting on Tuesday morning at 9:15AM in Will you be coming with them?

*Yvette Marquis  
Administrative Coordinator  
to the Honourable Dr. Margaret MacDiarmid  
Minister of Labour, Citizens' Services and Open Government  
Room 346, Parliament Buildings  
Victoria, BC V8V 1X4  
Phone: 250-952-7286 Fax: 250-952-7628*

---

**From:** Michael Harrison s22  
**Sent:** Thursday, May 24, 2012 1:41 PM  
**To:** Marquis, Yvette LCTZ:EX  
**Subject:** Weyerhaeuser Canada Meeting Request

Hello Yvette,

I'm writing on behalf of Weyerhaeuser Canada to request a meeting with Labour & Citizens Services Minister MacDiarmid during the week of May 28-30. The meeting would include the following representatives of Weyerhaeuser:

- Fred Dzida, Director, Canadian Timberlands
- Rob Marshall, Manager, Princeton Timberlands
- Wayne Roznowsky, Manager of Public Affairs Canada

The meeting will focus on sawmill safety and dust control along with other forestry issues such as Weyerhaeuser's presence in BC and its future plans.

Please let me know what times and dates might be available during that week. If you require additional information please don't hesitate to contact me at s22 (M).

Sincerely,  
Michael Harrison



## Marquis, Yvette LCTZ:EX

---

**From:** Dick, Joan L LCTZ:EX  
**Sent:** Monday, May 14, 2012 6:38 PM  
**To:** Marquis, Yvette LCTZ:EX  
**Cc:** Plant, Graham LCTZ:EX  
**Subject:** Meetings to set up for M3D

Yvette:

- 1) M3D had a conversation with Steve Hunt from the United Steelworkers today. He mentioned that he was coming over on Wednesday to meet with Minister Thomson (early in the morning). Their return flight to Vancouver isn't until 12:40 pm so he has a fairly wide window of time in which he could meet with Minister. (You could ask her about the time but I think she is thinking an hour, if necessary). She would like Kim Henderson to be present and also Trevor Hughes provided there are no conflicts for him with his regular line of work. (You can ask me for the background on this.) Anyways, apparently if you call Scott Lunney s22 arrangements can be made.
- 2) I note that come Wednesday, May 23 it will have been 4 weeks since the Minister convened the meeting of industry partners to discuss the sawmill explosions. Minister would like to have another meeting of this group during the Break Week. The invitees should be restricted to those who were invited to the original meeting. Any deviation will have to be approved by M3D. I asked about whether one day over another would be preferred and was advised "whatever works". Let me know and I will participate by phone.
- 3) I should also take a look at the outstanding Vancouver meeting list. If possible, I would like to take either the morning or the afternoon of June 1 for the last of the Vancouver meetings (for a while) to finish those off. There is one meeting that you won't have that could be set up for that date.

Over to you,  
Joan

## Marquis, Yvette LCTZ:EX

---

**From:** Marquis, Yvette LCTZ:EX  
**Sent:** Tuesday, April 24, 2012 10:14 AM  
**To:** Morfitt, George WCB:EX  
**Subject:** Phone call with Minister MacDiarmid this morning

Good morning,

Minister MacDiarmid would like to speak with you over the phone this morning re: the Lakeland Mill fire in PG.

She is hoping for 11AM or 12PM today.

Would you mind letting me know if either of these times will work.

Also if you could pls send me the best number for her to call you on.

Thanks so much.

*Yvette Marquis  
Administrative Coordinator  
to the Honourable Dr. Margaret MacDiarmid  
Minister of Labour, Citizens' Services and Open Government  
Room 346, Parliament Buildings  
Victoria, BC V8V 1X4  
Phone: 250-952-7286 Fax: 250-952-7628*

## **Marquis, Yvette LCTZ:EX**

---

**From:** Marquis, Yvette LCTZ:EX  
**Sent:** Tuesday, April 24, 2012 3:46 PM  
**To:** 'Marks@bcforestsafes.org'  
**Subject:** meeting tomorrow

Hi there,

As per our discussion, Minister MacDiarmid<sup>s,15</sup> will be holding a meeting tomorrow with regards to the PG sawmill tragic fire at

She has asked if both Reynold Hert and Peter Lineen could attend.

Thanks so much for looking in to this for me.

Some of the other attendees:

**David Anderson - Worksafe**

**Betty Piers VP Prevention Services Worksafe**

**George Morfitt - Worksafe**

**John Allan - COFI**

**Ann Mauch - COFI**

**Nick Arckle - COFI**

**Steve Hunt – Int'l Steelworkers**

**Bob Matters, Chair of Safety Work Council –International Steelworkers**

This is all I have for now but gives you an idea.

*Yvette Marquis*

*Administrative Coordinator*

*to the Honourable Dr. Margaret MacDiarmid*

*Minister of Labour, Citizens' Services and Open Government*

*Room 346, Parliament Buildings*

*Victoria, BC V8V 1X4*

*Phone: 250-952-7286 Fax: 250-952-7628*

Dick, Joan L LCTZ:EX

---

**From:** Dick, Joan L LCTZ:EX  
**Sent:** Tuesday, April 17, 2012 4:08 PM  
**To:** McCloy, Scott WCB:EX  
**Subject:** Re: Burns Lake Investigation Update

s.22

Thanks Scott.

I'm just back

. I have let MMM know. When you have a minute I would appreciate a quick chat about the ceremony itself. Almost any time tomorrow morning is good as MMM is in Cabinet.

J.

---

**From:** McCloy, Scott [<mailto:Scott.McCloy@worksafebc.com>]  
**Sent:** Tuesday, April 17, 2012 12:58 PM  
**To:** Dick, Joan L LCTZ:EX  
**Cc:** Greer, David GCPE:EX; Macnaughton, Jason GCPE:EX; Freeman, Donna WCB:EX  
**Subject:** Burns Lake Investigation Update

The investigation into the January 20 explosion at the Babine Forest Products Mill has been proceeding well and we are now transitioning into the analysis stage, which we expect will take up to six months.

This means that our investigators will be vacating the accident site by Thursday noon at which time control of the site will move back to the employer – Hampton Affiliates.

We are working closely with all parties to manage this transition and expect to remove our on-site equipment within a week or so.

As a result, the community is in the process of being informed of this development. The employer has been informed late this morning followed by the two families of the fatally injured workers.

A news release will be sent out province-wide by tomorrow morning and we will ensure a copy is sent to you before that time.

Regarding the Day of Mourning, plans are proceeding well and we are working towards an 11 a.m. start on Saturday, April 28<sup>th</sup> in Burns Lake.

I will provide other information to the Ministry communications team on our Friday call and will be contacting Sarah Fraser in the Ministry of Jobs, Tourism and Innovation in the next hour.

In the meantime, Joan, if you would like to discuss any further matters – particularly with regard to whether the Minister would still like to have a tour of the accident site on the Day of Mourning, I would be pleased to discuss it. Thank you. Scott



Be a part of the Day of Mourning tribute to workers who have lost their lives to workplace injury and disease. Visit the Day of Mourning web pages for more information on ceremonies taking place around B.C.: [http://www.worksafebc.com/news\\_room/campaigns/day\\_of\\_mourning/default.asp](http://www.worksafebc.com/news_room/campaigns/day_of_mourning/default.asp)

#### CONFIDENTIALITY DISCLAIMER

The information contained in this transmission may contain privileged and confidential information of WorkSafeBC - the Workers' Compensation Board. It is intended for review only by the person(s) named above. Dissemination, distribution or duplication of this communication is strictly prohibited by all recipients unless expressly authorized otherwise. If you are not the intended recipient, please contact the sender by reply email and destroy all copies of the original message. Thank you.

Dick, Joan L LCTZ:EX

---

From: Dick, Joan L LCTZ:EX  
Sent: Tuesday, April 17, 2012 4:19 PM  
To: Sproule, Spencer-PREM:EX  
Cc: Mills, Shane PREM:EX; MacInnis, Matthew JTI:EX; Parhar, TJ S JTI:EX

S/S:

Just FYI...

WSBC advises that the investigation into the January 20 explosion at the Babine Forest Products Mill has been proceeding well from their perspective and that they are now transitioning into the analysis stage, which is expected to take up to six months.

Apparently this means that their investigators will be vacating the accident site by Thursday noon at which time control of the site will move back to the employer - Hampton Affiliates.

WSBC is working closely with all parties to manage this transition and expect to remove their on-site equipment within a week or so. The community is in the process of being informed of this development and the employer was informed late this morning followed by the two families of the fatally injured workers. A news release will be sent out province-wide by tomorrow morning and apparently we have been assured that we will get a copy ahead of time.

J.

Dick, Joan L LCTZ:EX

---

From: Dick, Joan L LCTZ:EX  
Sent: Tuesday, April 17, 2012 4:37 PM  
To: MacDiarmid, Margaret LCTZ:EX  
Subject: Re: Burns Lake

Thanks, J.

----- Original Message -----

From: MacDiarmid, Margaret LCTZ:EX  
Sent: Tuesday, April 17, 2012 04:24 PM  
To: Dick, Joan L LCTZ:EX  
Subject: Re: Burns Lake

Would like to visit the site if possible. And yes, see if MLA Rustad and MPB would like to attend.  
Thanks  
Margaret

----- Original Message -----

From: Dick, Joan L LCTZ:EX  
Sent: Tuesday, April 17, 2012 04:08 PM  
To: MacDiarmid, Margaret LCTZ:EX  
Subject: Burns Lake

Minister:

Scott McCloy advises that the investigation into the January 20 explosion at the Babine Forest Products Mill has been proceeding well from their perspective and that they are now transitioning into the analysis stage, which is expected to take up to six months.

Apparently this means that their investigators will be vacating the accident site by Thursday noon at which time control of the site will move back to the employer - Hampton Affiliates.

WSBC is working closely with all parties to manage this transition and expect to remove their on-site equipment within a week or so. The community is in the process of being informed of this development and the employer was informed late this morning followed by the two families of the fatally injured workers. A news release will be sent out province-wide by tomorrow morning and has committed to ensure a copy is sent to you ahead of time.

I have been asked to confirm whether you still wish to make a visit to the site after the Saturday event? (By the way, they advise that arrangements for the event are shaping up nicely. Currently the start time is to be 11:00 am but this is still to be confirmed. I asked Scott to give me a call tomorrow about getting a rundown of the event itself. Would you like me



to ask if MPB and MLA have been invited and whether there are roles for them? There is expected to be a fairly fulsome turnout from the unions.) J.

Dick, Joan L LCTZ:EX

---

**From:** Dick, Joan L LCTZ:EX  
**Sent:** Wednesday, April 18, 2012 10:36 AM  
**To:** Sproule, Spencer PREM:EX  
**Cc:** Mills, Shane PREM:EX; MacInnis, Matthew JTI:EX; Parhar, TJ S JTI:EX  
**Subject:** FW: Burns Lake Investigation Update Apr.'12  
**Attachments:** Burns Lake Investigation Update Apr.'12.docx

S:

s13

This went out this morning and has now been provided on background.

J.

Dick, Joan L LCTZ:EX

---

**From:** Dick, Joan L LCTZ:EX  
**Sent:** Wednesday, April 18, 2012 11:02 AM  
**To:** 'j.rustad@leg.bc.ca'  
**Cc:** Plant, Graham LCTZ:EX; Karod, Suneil LASS:EX  
**Subject:** FW: Burns Lake Investigation Update Apr.'12  
**Attachments:** Burns Lake Investigation Update Apr.'12.docx

John:  
Just received this this morning

s13

s13

Regards,  
Joan

*Joan Dick  
Ministerial Assistant to the Honourable Dr. Margaret MacDiarmid  
Ministry of Labour, Citizens' Services and Open Government  
(o) 250-952-7623 (f) 250-952-7628*



**Dick, Joan L LCTZ:EX**

---

**From:** Dick, Joan L LCTZ:EX  
**Sent:** Tuesday, April 24, 2012 2:14 PM  
**To:** MacDiarmid, Margaret LCTZ:EX  
**Cc:** Plant, Graham LCTZ:EX  
**Subject:** FW: Minister Statement Contents - Notes for QP  
**Attachments:** Press Statement Contents.doc

**Importance:** High

M:  
FYI,  
J.

---

**From:** Henderson, Kim N LCTZ:EX  
**Sent:** Tuesday, April 24, 2012 2:11 PM  
**To:** Dick, Joan L LCTZ:EX; Plant, Graham LCTZ:EX  
**Cc:** Greer, David GCPE:EX  
**Subject:** FW: Minister Statement Contents - Notes for QP  
**Importance:** High

---

**From:** Freeman, Donna [<mailto:Donna.Freeman@worksafebc.com>]  
**Sent:** Tuesday, April 24, 2012 2:06 PM  
**To:** Henderson, Kim N LCTZ:EX  
**Cc:** Greer, David GCPE:EX  
**Subject:** Minister Statement Contents - Notes for QP

Kim and David – it's Roberta – I'm at Donnas station writing this – here are bullets for QP – they will also be the basis for our statement to media\R

Watch WorkSafeBC's live Day of Mourning webcast on Friday, April 27 at 10:30 a.m., and be a part of the tribute to workers who have lost their lives to workplace injury and disease: [www.worksafebc.com](http://www.worksafebc.com)

CONFIDENTIALITY DISCLAIMER

The information contained in this transmission may contain privileged and confidential information of WorkSafeBC - the Workers' Compensation Board. It is intended for review only by the person(s) named above. Dissemination, distribution or duplication of this communication is strictly prohibited by all recipients unless expressly authorized otherwise. If you are not the intended recipient, please contact the sender by reply email and destroy all copies of the original message. Thank you.

## Press Statement Contents

- WorkSafeBC sends condolences to families and community of Prince George - our staff are in the community providing assistance to the injured workers and their families
- The tragic events in Prince George have resulted in calls for the release of information gathered to date in the investigation into the Burns Lake sawmill explosion
- The status of the Burns' Lake investigation is that the site has been returned to the employer; equipment that must be examined has been removed from the site and transferred to independent laboratories for testing and analysis. Information gathered from witnesses continues to be analysed
- Fatality investigations must be conducted within the law while respecting the rights of all parties to a fair and impartial investigation
- WorksafeBC is not in a position to release information regarding the investigation into the tragic deaths and injuries at the Babine Mill in Burns Lake at this time
- The tragedy in Prince George remains with the RCMP and the Coroner and WorksafeBC will commence its investigation as soon as the site is released by both agencies and it is safe to do so
- WorkSafeBC will be issuing orders to all sawmill employers in B.C. directing that they conduct a full hazard identification, risk assessment and safety review with particular focus on combustible dust; dust accumulation; and potential ignition sources
- WorkSafeBC officers will be following up on these orders to confirm that the ordered actions have been taken and sawmills are in compliance with the Workers Compensation Act and OHS Regulation in regard to combustible dust and potential safety hazards
- At present WorkSafeBC does not have reasonable grounds to order sawmills closed. We will not hesitate to take such action should the circumstances warrant it.
- While recognising that there are similarities between the two explosions, both are sawmills, dust was present in both, as in all sawmills, and both mills were working with beetle-infested wood
- We cannot speculate, based on these similarities as to the cause of these events



**Dick, Joan L LCTZ:EX**

---

**From:** Dick, Joan L LCTZ:EX  
**Sent:** Tuesday, April 24, 2012 2:18 PM  
**To:** Sproule, Spencer PREM:EX  
**Cc:** Mills, Shane PREM:EX; Plant, Graham LCTZ:EX  
**Subject:** FW: Minister Statement Contents - Notes for QP  
**Attachments:** Press Statement Contents.doc  
  
**Importance:** High

**S:**

Here is a collection of bullets provided by WSBC (VP Roberta Ellis) for M3D to have for QP. They say this material will be the basis for their statement to the media.

I have no idea what time that will be. We were expecting, pursuant to the briefing this morning, that we would have had another around noon today. I am still waiting.

J.

**Dick, Joan L LCTZ:EX**

---

**From:** Dick, Joan L LCTZ:EX  
**Sent:** Tuesday, April 24, 2012 3:38 PM  
**To:** Dick, Joan L LCTZ:EX; Bond, Shirley B JAG:EX; Bell, Pat JTI:EX  
**Cc:** Coburn, Lindsay JAG:EX; Ehl, Cameron JTI:EX; Plant, Graham LCTZ:EX  
**Subject:** RE: Minister Statement Contents - Notes for QP  
**Attachments:** NR-PG Explosion.doc

FYI, J.

**From:** Dick, Joan L LCTZ:EX  
**Sent:** Tuesday, April 24, 2012 3:35 PM  
**To:** Bond, Shirley B JAG:EX; Bell, Pat JTI:EX  
**Cc:** Coburn, Lindsay JAG:EX; Ehl, Cameron JTI:EX; Plant, Graham LCTZ:EX  
**Subject:** FW: Minister Statement Contents - Notes for QP  
**Importance:** High

Ministers:

As per Minister MacDiarmid's direction, here is a very rough draft of what will be the contents of a press release that WSBC will be putting out at some point today. I'll forward a final when I receive it. The purpose of the provision of the material was to provide us with more information as a previously promised briefing for the noon hour has not yet occurred.

Finally, WSBC should be doing a media availability any time now.

Regards,

Joan

*Joan Dick  
Ministerial Assistant to the Honourable Dr. Margaret MacDiarmid  
Ministry of Labour, Citizens' Services and Open Government  
(o) 250-952-7623 (f) 250-952-7628*

**Dick, Joan L LCTZ:EX**

---

**From:** Dick, Joan L LCTZ:EX  
**Sent:** Tuesday, April 24, 2012 3:39 PM  
**To:** Sproule, Spencer PREM:EX  
**Cc:** Mills, Shane PREM:EX  
**Subject:** FW: Minister Statement Contents - Notes for QP  
**Attachments:** NR-PG Explosion.doc

FYI, J.

Dick, Joan L LCTZ:EX

---

From: Dick, Joan L LCTZ:EX  
Sent: Wednesday, April 25, 2012 1:24 PM  
To: Bond, Shirley B JAG:EX; Bell, Pat JTI:EX  
Cc: Coburn, Lindsay JAG:EX; Ehl, Cameron JTI:EX  
Subject: FW: Notes

FYI, J.

-----Original Message-----

From: Dick, Joan L LCTZ:EX  
Sent: Wednesday, April 25, 2012 1:23 PM  
To: Sproule, Spencer PREM:EX  
Cc: Mills, Shane PREM:EX  
Subject: FW: Notes

S:

Meeting was very constructive and all parties are interested in being co-operative in both the short and long runs. Not sure what media M3D did before she left Vancouver. She was scammed on the way into Caucus. Most questions were repeats. M3D says if PCC wants a direct account when she lands she is available to debrief. Will also share this with Bond and Bell's office.

J.

Meeting summary:

Industry, employers, workers and WS all have advice and information that can be brought to the table, agree all need to share to focus on worker safety and prevention.

WS will provide an order and information on combustible dust that will give some guidance to mill operators around the province, that will be released shortly. (actually tomorrow). WorkSafe will have officers on site in every sawmill in the province to review risk assessments by the end of the first week of May.

A workgroup will be convened urgently that will include the union, industry and WorkSafe to share best practices, tips, in a plain language way to mitigate hazards. The group today agreed it is important we not speculate on the specific causes of these two major events, however, two factors are in common between these mills, combustible dust and the processing of pine beetle wood. As much practicable information as can be shared will be shared with mill operators and workers to assure safety in mills across BC. WorkSafe will also share what can be ruled out in terms of their current ongoing investigation.



All agreed that the nature of the industry is changing, in regards to the age of wood being processed and techniques creating finer particulate dust. Research is needed that can be shared with industry, union and WorkSafe that will lead to new standards and regulations to reflect this changing nature of this business.

Dick, Joan L LCTZ:EX

---

From: Dick, Joan L LCTZ:EX  
Sent: Wednesday, April 25, 2012 1:27 PM  
To: Southern, Evan FLNR:EX  
Cc: Plant, Graham LCTZ:EX  
Subject: FW: Notes

ES:

s13

Meeting was very constructive and all parties are interested in being co-operative in both the short and long runs. Not sure what media M3D did before she left Vancouver. She was scammed on the way into Caucus. Most questions were repeats. Have shared this with Bond and Bell's office.

J.

Meeting summary:

Industry, employers, workers and WS all have advice and information that can be brought to the table, agree all need to share to focus on worker safety and prevention.

WS will provide an order and information on combustible dust that will give some guidance to mill operators around the province, that will be released shortly. (actually tomorrow). WorkSafe will have officers on site in every sawmill in the province to review risk assessments by the end of the first week of May.

A workgroup will be convened urgently that will include the union, industry and WorkSafe to share best practices, tips, in a plain language way to mitigate hazards. The group today agreed it is important we not speculate on the specific causes of these two major events, however, two factors are in common between these mills, combustible dust and the processing of pine beetle wood. As much practicable information as can be shared will be shared with mill operators and workers to assure safety in mills across BC. WorkSafe will also share what can be ruled out in terms of their current ongoing investigation.

All agreed that the nature of the industry is changing, in regards to the age of wood being processed and techniques creating finer particulate dust. Research is needed that can be shared with industry, union and WorkSafe that will lead to new standards and regulations to reflect this changing nature of this business.

**Dick, Joan L LCTZ:EX**

---

From: Dick, Joan L LCTZ:EX  
Sent: Wednesday, April 25, 2012 1:28 PM  
To: Plant, Graham LCTZ:EX  
Subject: RE: Notes

G:  
Also sent to PTB (Spencer, Shane) and Bond, Bell and copied Coburn and Ehl.  
J.

-----Original Message-----

From: Dick, Joan L LCTZ:EX  
Sent: Wednesday, April 25, 2012 1:27 PM  
To: Southern, Evan FLNR:EX  
Cc: Plant, Graham LCTZ:EX  
Subject: FW: Notes

ES:

s13

Meeting was very constructive and all parties are interested in being co-operative in both the short and long runs. Not sure what media M3D did before she left Vancouver. She was scrummed on the way into Caucus. Most questions were repeats. Have shared this with Bond and Bell's office.  
J.

Meeting summary:

Industry, employers, workers and WS all have advice and information that can be brought to the table, agree all need to share to focus on worker safety and prevention.

WS will provide an order and information on combustible dust that will give some guidance to mill operators around the province, that will be released shortly. (actually tomorrow). WorkSafe will have officers on site in every sawmill in the province to review risk assessments by the end of the first week of May.

A workgroup will be convened urgently that will include the union, industry and WorkSafe to share best practices, tips, in a plain language way to mitigate hazards. The group today agreed it is important we not speculate on the specific causes of these two major events, however, two factors are in common between these mills, combustible dust and the processing of pine beetle wood. As much practicable information as can be shared will be shared with mill operators and workers to assure safety in mills across BC. WorkSafe will also share what can be ruled out in terms of their current ongoing investigation.

All agreed that the nature of the industry is changing, in regards to the age of wood being processed and techniques creating finer particulate dust. Research is needed that can be shared with industry, union and WorkSafe that will lead to new standards and regulations to reflect this changing nature of this business.



Dick; Joan L LCTZ:EX

---

From: Dick, Joan L LCTZ:EX  
Sent: Wednesday, April 25, 2012 2:29 PM  
To: Mills, Shane PREM:EX  
Cc: Sproule, Spencer PREM:EX  
Subject: RE: Notes

S:

s13

J.

-----Original Message-----

From: Mills, Shane PREM:EX  
Sent: Wednesday, April 25, 2012 1:45 PM  
To: Dick, Joan L LCTZ:EX; Sproule, Spencer PREM:EX  
Subject: Re: Notes

s13

----- Original Message -----

From: Dick, Joan L LCTZ:EX  
Sent: Wednesday, April 25, 2012 01:34 PM  
To: Sproule, Spencer PREM:EX  
Cc: Mills, Shane PREM:EX  
Subject: RE: Notes

s13

J.

-----Original Message-----

From: Sproule, Spencer PREM:EX  
Sent: Wednesday, April 25, 2012 1:27 PM  
To: Dick, Joan L LCTZ:EX  
Cc: Mills, Shane PREM:EX  
Subject: Re: Notes

On 12-04-25 1:23 PM, "Dick, Joan L LCTZ:EX" <[Joan.Dick@gov.bc.ca](mailto:Joan.Dick@gov.bc.ca)> wrote:

>S:  
 >Meeting was very constructive and all parties are interested in being  
 >co-operative in both the short and long runs. Not sure what media M3D  
 >did before she left Vancouver. She was scammed on the way into Caucus.  
 >Most questions were repeats.  
 >M3D says if PCC wants a direct account when she lands she is available  
 >to debrief. Will also share this with Bond and Bell's office.  
 >J.  
 >  
 >Meeting summary:  
 >  
 >Industry, employers, workers and WS all have advice and information  
 >that can be brought to the table, agree all need to share to focus on  
 >worker safety and prevention.  
 >  
 >WS will provide an order and information on combustible dust that will  
 >give some guidance to mill operators around the province, that will be  
 >released shortly. (actually tomorrow). WorkSafe will have officers on  
 >site in every sawmill in the province to review risk assessments by the  
 >end of the first week of May.  
 >  
 >A workgroup will be convened urgently that will include the union,  
 >industry and WorkSafe to share best practices, tips, in a plain  
 >language way to mitigate hazards. The group today agreed it is  
 >important we not speculate on the specific causes of these two major  
 >events, however, two factors are in common between these mills,  
 >combustible dust and the processing of pine beetle wood. As much  
 >practicable information as can be shared will be shared with mill  
 >operators and workers to assure safety in mills across BC. WorkSafe  
 >will also share what can be ruled out in terms of their current ongoing investigation.  
 >  
 >All agreed that the nature of the industry is changing, in regards to  
 >the age of wood being processed and techniques creating finer  
 >particulate dust. Research is needed that can be shared with  
 >industry, union and WorkSafe that will lead to new standards and  
 >regulations to reflect this changing nature of this business.  
 >

**Dick, Joan L LCTZ:EX**

---

**From:** Dick, Joan L LCTZ:EX  
**Sent:** Wednesday, April 25, 2012 2:41 PM  
**To:** Henderson, Kim N LCTZ:EX  
**Subject:** RE: Minister McDiarmids Meeting..... some followup

Done (resent).

J.

---

**From:** Henderson, Kim N LCTZ:EX  
**Sent:** Wednesday, April 25, 2012 2:34 PM  
**To:** Dick, Joan L LCTZ:EX  
**Subject:** RE: Minister McDiarmids Meeting..... some followup

Yes please Diane and Barb, thanks.

---

**From:** Dick, Joan L LCTZ:EX  
**Sent:** Wednesday, April 25, 2012 2:31 PM  
**To:** Henderson, Kim N LCTZ:EX  
**Subject:** FW: Minister McDiarmids Meeting..... some followup

Kim:  
See below.  
Should I copy Dianne on these and if not her, who?  
J.

---

**From:** Dick, Joan L LCTZ:EX  
**Sent:** Wednesday, April 25, 2012 1:38 PM  
**To:** 'Lineen, Peter'  
**Subject:** RE: Minister McDiarmids Meeting..... some followup

Thanks, Peter.

I am going to share this with our Deputy as she is also in a good position to keep up with this information.

Having said that thanks for keeping me in the loop. Kim and I will keep the minister briefed.

Joan

**From:** Lineen, Peter [mailto:Lineen@bcforestsafe.org]  
**Sent:** Wednesday, April 25, 2012 1:02 PM  
**To:** Pirs, Betty WCB:EX; Wilson, Donna WCB:EX  
**Cc:** s22 mauch@cofi.org; Anderson, David WCB:EX; Dick, Joan L LCTZ:EX  
**Subject:** Minister McDiarmids Meeting..... some followup

Betty,

I have calls in to the Weyerhaeuser organization and they have advised they will send me their latest materials on controlling combustible dusts in wood products operations. The WY technical group is based in the US and is competent on this subject having learned the very hard way in late 90's and early 2000's. Their internal standards are in conformance with OSHA/ASTM standards and compliance with OSHA reg's in the states. They also have a Canadian version they will send along.

I have also contacted FP Innovations – the forest industry research group based in UBC and talked to the CEO, Peter Lister. Peter will await instruction as to support and possible research work the 'working team' may want to commission on combustibility characteristics of dry beetle killed wood. I have also made contacts with colleagues in the Wood Pellet Association of Canada, specifically Dr. Stefan Melin. Stefan is the technical director of pellet mill construction standards and sits on international ISO standards committees developing engineering standards to control fire and explosion. Stefan is interested in helping with the research he has undertaken (it is very extensive) – he leads the engineering dept at UBC focused on developing technologies in bioenergy.

I have left a message with Kerry Douglas of West Fraser mills and advised of our discussions this afternoon. I indicated the working team would include a rep from the 'MAG' to help move this effort along.

Let me know if there is anything else I can help with.

Peter



**Dick, Joan L LCTZ:EX**

---

**From:** Dick, Joan L LCTZ:EX  
**Sent:** Wednesday, April 25, 2012 8:19 PM  
**To:** Henderson, Kim N LCTZ:EX  
**Cc:** Walman, Barbara J. LBR:EX; Taylor, Diane Ruth LCTZ:EX  
**Subject:** Fw: Minister McDiarmids Meeting..... some follow-up

---

**From:** Pirs, Betty [<mailto:Betty.Pirs@worksafebc.com>]  
**Sent:** Wednesday, April 25, 2012 08:01 PM  
**To:** 'Lineen. Peter' <[Lineen@bcforestsafesafe.org](mailto:Lineen@bcforestsafesafe.org)>; Wilson, Donna WCB:EX  
**Cc:** s22; [mauch@cofi.org](mailto:mauch@cofi.org) <[mauch@cofi.org](mailto:mauch@cofi.org)>; Anderson, David WCB:EX; Dick, Joan L LCTZ:EX; Walker, Dale WCB:EX  
**Subject:** RE: Minister McDiarmids Meeting..... some follow-up

Hi Peter – thank you for getting onto this so promptly. We have set up our WorkSafe team to get this best practices workgroup going. Dale Walker will be leading it from our side and he will be contacting the meeting participants to get things going. I think we're going to separate out the research component into a separate workgroup as it may be a bit longer term. We should have the contacts identified for that workgroup identified and communicated to all shortly.

Thanks again for your help with this.

Betty

---

**From:** Lineen, Peter [<mailto:Lineen@bcforestsafesafe.org>]  
**Sent:** Wednesday, April 25, 2012 1:02 PM  
**To:** Pirs, Betty; Wilson, Donna  
**Cc:** s22; [mauch@cofi.org](mailto:mauch@cofi.org); Anderson, Dave; [joan.dick@gov.bc.ca](mailto:joan.dick@gov.bc.ca)  
**Subject:** Minister McDiarmids Meeting..... some followup

Betty,

I have calls in to the Weyerhaeuser organization and they have advised they will send me their latest materials on controlling combustible dusts in wood products operations. The WY technical group is based in the US and is competent on this subject having learned the very hard way in late 90's and early 2000's. Their internal standards are in conformance with OSHA/ASTM standards and compliance with OSHA reg's in the states. They also have a Canadian version they will send along.

I have also contacted FP Innovations – the forest industry research group based in UBC and talked to the CEO, Peter Lister. Peter will await instruction as to support and possible research work the 'working team' may want to commission on combustibility characteristics of dry beetle killed wood. I have also made

contacts with colleagues in the Wood Pellet Association of Canada, specifically Dr. Stafan Melin. Stafan is the technical director of pellet mill construction standards and sits on international ISO standards committees developing engineering standards to control fire and explosion. Stafan is interested in helping with the research he has undertaken (it is very extensive) – he leads the engineering dept at UBC focused on developing technologies in bioenergy.

I have left a message with Kerry Douglas of West Fraser mills and advised of our discussions this afternoon. I indicated the working team would include a rep from the 'MAG' to help move this effort along.

Let me know if there is anything else I can help with.

Peter

Watch WorkSafeBC's live Day of Mourning webcast on Friday, April 27 at 10:30 a.m., and be a part of the tribute to workers who have lost their lives to workplace injury and disease: [www.worksafebc.com](http://www.worksafebc.com)

#### CONFIDENTIALITY DISCLAIMER

The information contained in this transmission may contain privileged and confidential information of WorkSafeBC - the Workers' Compensation Board. It is intended for review only by the person(s) named above. Dissemination, distribution or duplication of this communication is strictly prohibited by all recipients unless expressly authorized otherwise. If you are not the intended recipient, please contact the sender by reply email and destroy all copies of the original message. Thank you.

Dick, Joan L LCTZ:EX

---

**From:** Dick, Joan L LCTZ:EX  
**Sent:** Wednesday, April 25, 2012 10:00 PM  
**To:** MacDiarmid, Margaret LCTZ:EX  
**Subject:** Fw: Fwd: sections of OHSR relating to combustible dust  
**Attachments:** G5.71(3).pdf; ATT00001.htm; Jurisdictional Summary.docx; ATT00002.htm

**From:** Henderson, Kim N LCTZ:EX  
**Sent:** Wednesday, April 25, 2012 08:31 AM  
**To:** Dick, Joan L LCTZ:EX  
**Subject:** Fwd: sections of OHSR relating to combustible dust

Begin forwarded message:

**From:** "Walman, Barbara J. LBR:EX" <[Barbara.Walman@gov.bc.ca](mailto:Barbara.Walman@gov.bc.ca)>  
**Date:** 24 April, 2012 4:30:05 PM PDT  
**To:** "Henderson, Kim N LCTZ:EX" <[Kim.Henderson@gov.bc.ca](mailto:Kim.Henderson@gov.bc.ca)>  
**Cc:** "Blakely, John H LBR:EX" <[John.Blakely@gov.bc.ca](mailto:John.Blakely@gov.bc.ca)>  
**Subject:** FW: sections of OHSR relating to combustible dust

Hi Kim, John has been working directly with Anne Burch, head of policy at WS, on the outstanding issues and she has provided the relevant OHS guidelines and a brief summary of the BC Reg and what other jurisdictions require. As noted, nowhere does it refer to the depth of dust or accumulations, except to say that accumulation of as little as 1/32 of an inch of combustible dust on horizontal surfaces (both inside and outside the dust collector) may lead to a secondary and more damaging explosion following any primary explosion. This is in reference to the dust collector.

No indication of any research or background on what the accumulation levels might look like~

s13

s13

Let me now if there is anything else you need.

---

**From:** Burch, Anne [<mailto:Anne.Burch@worksafebc.com>]  
**Sent:** Tuesday, April 24, 2012 03:19 PM  
**To:** Blakely, John H LBR:EX  
**Cc:** Ellis, Roberta WCB:EX  
**Subject:** FW: sections of OHSR relating to combustible dust

Hi John – further to the specific sections in the OHSR relating to combustible or flammable air contaminants ( s.5.71 and s 5.81) below that I previously sent to you, there are other provisions in the OHSR and WCA (identified directly below) that relate to combustible dust.

These provisions in the WCA are as follows:

- s 115, General Duties of Employers
- s 117, General Duties of Supervisors
- s 119 General Duties of Owners

These provisions in the OHSR are:

- s 2.2 relating to general duty to carry out work without undue risk of injury or occupational disease to any person
- s 3.9 – 3.11 relating to correction of unsafe conditions
- s 4.1 relating to having workplaces that are planned, constructed, used and maintained to protect from danger any person working at the workplace

Further, there is an extensive guideline on combustible dust G5.71(3) that accompanies the regulatory requirement. I've attached a pdf of this guideline below for you.

There may be provisions in the provincial Fire Code that would be pertinent as well.

Let me know if you need anything further.

Regards  
Anne



**G5.71(3) Location and construction of dust collectors**

Issued April 27, 2010

**Regulatory excerpt**

Subsection 5.71(3) of the *OHS Regulation* ("Regulation") states:

A dust collector having an internal volume greater than 0.6 m<sup>3</sup> (20 ft<sup>3</sup>) and being used to control combustible dusts must be located and constructed so that no worker will be endangered in the event of an explosion inside the collector.

**Purpose of guideline**

This guideline explains terms used in *Regulation* subsection 5.71(3) and provides guidance for locating and constructing dust collectors used to control combustible dusts so that workers will not be endangered in the event of an explosion inside the collector.

**Background**

WorkSafeBC considers the relevant National Fire Protection Association (NFPA) standards to provide acceptable guidance with respect to combustible dust collectors. There are a series of NFPA standards that are relevant to the control of fire and explosion hazards from combustible dusts and an employer should review the standard(s) relevant to the application in question. Information in this guideline references mainly the following NFPA standards, which are available for review online at <http://www.nfpa.org/>.

*NFPA 61 Standard for the Prevention of Fires and Dust Explosions in Agricultural and Food Processing Facilities (2008)*

*NFPA 484 Standard for Combustible Metals (2009)*

*NFPA 654 Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids (2006)*

*NFPA 655 Standard for Prevention of Sulfur Fires and Explosions (2007)*

*NFPA 664 Standard for the Prevention of Fires and Explosions in Wood Processing and Woodworking Facilities (2007)*

In addition, there are specifications in the *BC Building Code* (e.g., edition 2006, articles 3.3.1.20 and 6.2.2), *BC Electrical Code Regulation (2009)* - Chapter 18, and the *BC Fire Code*, (e.g., edition 2006 article 5.3) with respect to protection from fires and explosions of combustible dust.

Employers should not rely solely on the generic information in this guideline to minimize hazards that could lead to a dust explosion. The entire relevant standard(s) or code(s) should be consulted for complete information.

**What is a "dust collector having an internal volume greater than 0.6 m<sup>3</sup> (20 cu. feet)?"**

A dust collector is one component of a dust collection system. The collection system is a pneumatic conveying system that is specifically designed to capture dust at the point of generation, sometimes from multiple pieces of equipment, and convey the particulate to a point of collection. The system includes the collection hood, conveyance ducting, and flexible hoses, exhaust fan, motor, and dust collector. The dust collector, also called an air-material separator, is a device used to separate the particulate material from the air stream, and includes but is not limited to cyclones, baghouse and media-type filter collectors, wet-type collectors, electrostatic precipitators, and enclosureless units.

A *cyclone* is defined in *NFPA 664* as a cylindrical type of dust collector used to separate particulate from the air stream by centrifugal force, having an enclosure of circular cross-section, a tangential air and material inlet, an air exhaust outlet, and a material discharge. In order to determine whether subsection 5.71(3) is applicable, the internal volume of the dust collector needs to be determined. The internal volume of a cyclone is considered to be the volume of the collector from the tangential inlet through the cylindrical and conical area, and includes the chute and dust container that holds the captured dust.

A *baghouse* dust collector is an air-material separator designed and used to remove dust from the transport air through a filter medium of suspended bags that are contained within an enclosure. The internal volume is considered to be the total volume inside the enclosure from the entrance point of the air-particle mixture, and includes the volume of the container designed to hold the captured dust.

*NFPA 664* defines an *enclosureless dust collector* as an air-material separator where filtration is accomplished by passing dust-laden air through filter media, collecting the dust on the inside of the filter media and allowing cleaned air to exit to the surrounding area (Note: See also *Regulation* section 5.70 and guideline G5.70 for information about requirements for discharged air). The filter medium is not enclosed, is hand shaken and is under positive pressure during use. Removal of the collected dust is not continuous or mechanical. The internal volume of an enclosureless dust collector is considered to be the air volume inside all the bags plus the air volume of the container designed to hold the captured dust.

If the manufacturer's specifications for a dust collector do not include the internal volume of the dust collector, this volume can be calculated from measurements of height and area.

### What is a combustible dust?

NFPA 654 defines combustible dust as a combustible particulate solid that presents a fire or deflagration\* hazard when suspended in air or some other oxidizing medium over a range of concentrations, regardless of particle size or shape. This definition replaces a previous definition that required the particles to be, on average, less than 420 micron (0.017 inch) diameter (capable of passing through a U.S. No. 40 Standard Sieve). The newer definition applies more broadly to include elongated particles such as paper dust and some agglomerates, for which particle diameter is not a useful concept.

\*NFPA Standards and this guideline use the term "deflagration." Deflagration is the propagation of a pressure wave (at a speed less than the speed of sound) from the ignition of a combustible dust, and includes both fires and explosions. An explosion can occur if the deflagration occurs in an enclosed space such as a dust collector, duct, or building.

Not all dusts are combustible. For example, substances that are stable inorganic oxides (e.g., silicates, sulphates, phosphates, and carbonates) are not combustible. Therefore dust clouds of Portland cement, sand, limestone, etc. are not combustible.

Materials that are combustible and that can give rise to dust explosions include, but are not limited to

- Food products (e.g., grain, cellulose, powdered milk, sugar, flour, starch, etc.)
- Natural organic materials (e.g., wood dust, wood flour, textiles such as cotton dust and nylon dust, biosolids, etc.)
- Synthetic organic materials (plastics such as phenolics and polypropylene, resins such as lacquer and phenol-formaldehyde, organic pigments, pharmaceuticals, pesticides, etc.)
- Coal and peat
- Metals (e.g., aluminum, magnesium, zinc, iron, etc.)

Combustible dusts have varying limits of flammability. These are usually expressed in terms of grams per cubic metre. For example, aluminum dust may be listed as requiring an airborne concentration of 30 grams per cubic metre for a combustible atmosphere to exist whereas coal dust may require 60 grams per cubic metre. A layer of dust as thin as a dime dispersed throughout a room can create an explosion hazard.

NFPA 499 *Recommended Practice for the Classification of Combustible Dusts and of Hazardous (Classified) Locations for Electrical Installations in Chemical Process Areas* (2008) includes a table of selected combustible materials. This is not a comprehensive list and a dust should be considered to be combustible unless it is known otherwise. For certain, substances that are combustible as particulates should be considered as combustible dusts. OSHA also publishes a list of substances for which there is a risk of combustible dust explosion, at <http://www.osha.gov/Publications/combustibledustposter.pdf>.

### What is a dust explosion?

A dust explosion/deflagration is essentially the very rapid combustion of a dust cloud or suspension of dust in air, during which heat and pressure is generated at a very high rate. The conditions necessary for an explosion are a sufficiently dense dust cloud of combustible dust in an enclosed area, adequate oxygen/air to support combustion, and an ignition source.

Dust explosions can be very destructive. Often there is a series of explosions in which the primary explosion/deflagration is relatively small. The pressure from the primary explosion can be intense enough to dislodge dust off walls, beams, ledges, machines, and other surfaces. This dislodged dust then mixes with air, creating a much larger dust cloud which can then be ignited and react explosively creating a secondary catastrophic explosion. This secondary explosion/deflagration can be much larger than the primary explosion.

### Location and construction of dust collectors

The guidance in this guideline is taken mainly from the five NFPA standards listed above in the Background section. Information provided here represents some of the control measures from the NFPA standards. In addition, *NFPA 69 Standard on Explosion Prevention Systems (2008)* provides information on preventing and controlling deflagrations.

The NFPA standards also contain specifications not directly related to location or construction of the dust collector (e.g., electrical protection, ventilation, control of ignition sources, spark detection and arrest, isolation devices, ductwork, partitioning, preventing dust accumulations on horizontal surfaces, sprinkler and other fire suppression systems, relief venting, etc.). These specifications are not directly related to *Regulation* subsection 5.71(3) but many are related to other regulatory requirements. Employers should not rely solely on the generic information in this guideline to minimize hazards leading to dust explosions. The entire relevant standard(s) should be consulted for complete information.

### Location of a dust collector

*Regulation* subsection 5.71(3) specifies that a dust collector used to control combustible dust be located so that no worker will be endangered in the event of an explosion inside the collector. Dust collectors used for collection of combustible dust are appropriately located outdoors – this is usually the preferred location with respect to compliance with this section of the *Regulation*. Under certain circumstances and conditions, it is acceptable to locate a dust collector indoors. The relevant B.C. Codes and NFPA standard(s) should be consulted for complete information on these circumstances and conditions, but some general guidance is provided here.

The *BC Fire Code* (2006) specifies in Division B Section 5.3 that a dust collector having a flow capacity greater than 0.5 m<sup>3</sup>/s be located outside of a building and be equipped with explosion venting to the outdoors of not less than 0.1 m<sup>2</sup> of vent area for each cubic metre of dust collector enclosure volume.

The *BC Fire Code* allows a dust collector to be located inside a building if it is

- a) Provided with explosion venting to the outdoors
- b) Equipped with an automatic explosion venting system



- c) Located in a room with fire separations having a fire-resistance rating of not less than 1 hr and provided with explosion venting to the outdoors

The *BC Fire Code* also requires, when exhausted air is returned to the building, that the dust-collection system be designed so that the exhaust fan and ancillary equipment are automatically shut down in the event of a fire or an explosion inside the dust collector. Construction of a dust collector should also include isolation devices where ductwork returning to a building from the dust collector can provide a path for a fireball and a pressure wave to enter the building.

A number of NFPA standards also provide guidance for the location of a dust collector, and this guidance is acceptable as long as it does not contradict British Columbia code requirements such as the *BC Fire Code*. For example, *NFPA 61* Chapter 10 specifies location criteria for dust collectors used in **agriculture and food processing** facilities, including operations involving dry agricultural bulk materials and their by-products, and dusts that include grains, oilseeds, agricultural seeds, legumes, sugar, flour, spices, feeds, and other related materials. An outside location of the dust collector is required, with several exceptions listed in the standard.

*NFPA 484* describes specific dust collector location criteria for a number of **combustible metals** and has specific chapters for control of combustible dust hazards from alkali metals, aluminum, magnesium, niobium, tantalum, titanium, zirconium, and other combustible metals.

*NFPA 654* provides specifications for control of dust explosions from **materials not specifically addressed by another more specific NFPA standard**. This standard specifies that, where an explosion hazard exists, air-material separators be located outside of buildings. The standard provides some exceptions to this specification in Chapter 7.

*NFPA 655* provides general specifications for control of fires and explosions from processes involving **sulfur** dust, and includes specific location criteria for the dust collector.

*NFPA 664* provides specifications for selecting the location for a dust collector in **wood processing and woodworking facilities**. Outdoor locations are recommended. The standard recommends that dust collectors not be located on the roof of a building. Indoor locations are permitted by the standard under special circumstances, which are listed in the standard for enclosed and enclosureless dust collectors.

### Construction of a dust collector

Dust collectors used for combustible dust need to be designed and constructed entirely of non-combustible material suitable for the use intended (Note: the use of aluminum paint on the inside of a metal dust collector increases the fire hazard and should be avoided. If the aluminum flakes off or is struck by a foreign object, the heat of impact could be sufficient to cause ignition of the aluminum particle, thereby initiating a fire). However, filter bags and explosion vent panels fabricated from combustible material are acceptable. Dust collectors need to be constructed to prevent leakage of dust into the rest of the workplace and to minimize internal ledges or other points of dust accumulation (e.g., hopper bottoms should be sloped; surfaces and seams should be smooth). This is important since an accumulation of as little as 0.8 mm (1/32 inch) thick

of combustible dust on horizontal surfaces (both inside and outside the dust collector) may lead to a secondary and more damaging explosion following any primary explosion. Dust collectors need to have independent supporting structures capable of supporting the weight of the collector, the material being collected, and any water from extinguishing systems that will not readily drain from the system.

*NFPA 61* Chapter 10 specifies criteria for construction of a dust collector used for **agricultural and food processing** operations.

*NFPA 484* describes construction criteria for dust collection in **metal operations**.

*NFPA 655* provides general specifications for control of fires and explosions from processes involving **sulfur** dust, and includes specific construction criteria.

*NFPA 664* describes location and construction criteria for **wood processing and woodworking** facilities (see especially section 8.2).

### **Explosion relief venting and suppression**

Explosion relief vents are panels or doors that are deliberate points of weakness. If they are of the correct size and construction, and properly positioned, they can help to safely vent an explosion in a dust collector so that workers are not endangered. These relief vents should be designed and constructed by experts. *NFPA 68 Standard on Explosion Protection by Deflagration Venting (2007)* addresses the design, location, installation, maintenance, and use of devices and systems that vent the combustion gases and pressures resulting from a deflagration within an enclosure. The standard specifies that deflagration venting be arranged to avoid injury from the vent discharge and that the material discharged from an enclosure during the venting of a deflagration be directed outside to a safe location.

*NFPA 654* includes information on deflagration venting, suppression systems, mechanical and chemical isolation systems, flame front diverters, and abort gates to lower the risk to workers in the event of an explosion inside a dust collector.

## **British Columbia (OHS Regulation):**

### **5.71 Flammable air contaminants (it should be noted that the update of the reference to the Electrical Code is part of the 2012 Regulatory Workplan)**

- (1) If an operation or work process produces a combustible or flammable air contaminant in concentrations that may present a risk of fire or explosion, the employer must provide a separate exhaust ventilation system for the operation or work process.
- (2) Electrical components of an exhaust ventilation system required by subsection (1) must comply with Class I Division I requirements of *CSA Standard C22.1-94, Canadian Electrical Code, Part 1* if the components contact the air stream.
- (3) A dust collector having an internal volume greater than 0.6 m<sup>3</sup> (20 ft<sup>3</sup>) and being used to control combustible dusts must be located and constructed so that no worker will be endangered in the event of an explosion inside the collector.

### **5.81 Combustible dust**

If combustible dust collects in a building or structure or on machinery or equipment, it must be safely removed before accumulation of the dust could cause a fire or explosion.

## Alberta (OHS code):

"combustible dust" means a dust that can create an explosive atmosphere when it is suspended in air in ignitable concentrations;

"hazardous location" in Part 10 means a place where fire or explosion hazards may exist due to flammable gases or vapours, flammable or combustible liquids, combustible dust or ignitable fibres or flyings, as described in the *Canadian Electrical Code*;

### Reporting dangerous occurrences

**544(1)** An employer must notify the Director as soon as possible if any of the following occur:

- (a) an unexpected major ground fall or subsidence that endangers or may endanger workers, equipment or facilities;
- (b) an unplanned stoppage of the main underground ventilation system, if it lasts more than 30 minutes;
- (c) a vehicle that goes out of control;
- (d) ignition of flammable gas, combustible dust or other material underground;
- (e) workers are withdrawn from a hazardous location under emergency conditions;
- (f) electrical equipment failures or incidents that cause, or threaten to cause, injury to workers or damage to equipment or facilities;
- (g) any other unusual incident or unexpected event that could have caused serious injury to a worker;
- (h) outbursts and inrushes; or
- (i) an incident involving a hoist, sheave, hoisting rope, shaft conveyance, shaft, shaft timbering or headframe structure.

### Combustible dust

**601(1)** An employer must ensure that, in hazardous locations, no combustible dust accumulates at or near the conveyor belt, the belt support rollers, the conveyor belt drive and tail or the belt take-up drums.

**601(2)** An employer must ensure that, if dust may be a hazard, a belt conveyor discharge is constructed so that the amount of dust spilled or dispersed into the air is minimized or eliminated.

### **Saskatchewan (OHS Regulation):**

- Uses the terms "explosive dust" and "flammable substance" in Regulation

Precautions where safe atmosphere not possible (related to confined space)

274 (6) If any flammable or explosive dusts, gases, vapours or liquids are or may be present in a hazardous confined space, an employer shall ensure that all sources of ignition are eliminated or controlled.

### **Definition under Fire and Explosion Hazards**

(d) "flammable substance" means:

- (i) a flammable or combustible solid, liquid or gas; or
- (ii) dust that is capable of creating an explosive atmosphere when suspended in air in concentrations within the explosive limit of the dust;

Control of ignition sources, static charges

367 An employer or contractor shall ensure that:

- (a) suitable procedures are developed and implemented to prevent the ignition of flammable liquids or explosive dusts that are present at a worksite;
- (b) all sources or potential sources of ignition are eliminated or controlled where an explosive atmosphere exists or is likely to exist; and
- (c) static charge accumulations during transfer of flammable liquids or explosive substances from one container to another are prevented by electrically bonding the containers.



## **Manitoba (Workplace Safety and Health Regulation):**

- Includes combustible dust in definition of "flammable substance"

### **"flammable substance" means**

- (a) a flammable or combustible solid, liquid or gas; or
- (b) dust that is capable of creating an explosive atmosphere when suspended in air in concentrations within the explosive limit of the dust.

## **PART 19**

## **FIRE AND EXPLOSIVE HAZARDS**

### **Application**

**19.1** This Part applies to every workplace where

- (a) combustible liquids, flammable liquids or flammable substances are present; or
- (b) hot work is performed.

### **Safe work procedures**

**19.2** An employer must

- (a) develop and implement safe work procedures for fire and explosive hazards in the workplace, including hot work if hot work is performed in the workplace;
- (b) train workers in the safe work procedures; and
- (c) ensure that workers comply with the safe work procedures.

### **Fire protection equipment and fire extinguishers**

**19.3(1)** An employer must ensure that

- (a) fire protection equipment of an appropriate type and sufficient size and capacity to be effective is installed in the workplace in accordance with the *Manitoba Fire Code*; and
- (b) portable fire extinguishers are located in the workplace in accordance with the *Manitoba Fire Code*.

**19.3(2)** An employer must ensure that all fire protection equipment and portable fire extinguishers are maintained in accordance with the manufacturer's specifications and the *Manitoba Fire Code*.

### **Containers for contaminated materials**

**19.4** An employer must ensure that any material contaminated by a flammable or combustible liquid is placed in a container that is stored in accordance with the *Manitoba Fire Code*.

### **Containers for combustible or flammable liquids**

**19.5** An employer must ensure that any flammable or combustible liquid is kept in a container that meets the requirements of the *Manitoba Fire Code*.

### **Use of gasoline**

**19.6(1)** An employer must ensure that gasoline is not used to start a fire or used as a cleaning agent.

**19.6(2)** An employer must ensure that a worker does not

- (a) refill a tank connected to a heating device with a combustible or flammable liquid while the device is in operation or is hot enough to ignite the liquid; or
- (b) place a tar pot that is in use within 3 m of an entrance to or exit from a building

or structure.

### **Control of ignition sources, static charges**

**19.7** An employer must ensure that

- (a) static charge accumulations during the transfer of a flammable liquid or explosive substance from one container to another are prevented by either electrically bonding or grounding the containers;
- (b) metallic or conductive containers used to transfer flammable liquids are electrically bonded to each other or are electrically grounded while their contents are being transferred from one container to the other; and
- (c) only flammable fuel transfer equipment and portable fuel transfer tanks approved by the CSA or the Underwriters Laboratories of Canada are used to transfer flammable liquids.

### **Flammable or explosive substances in atmosphere**

**19.8(1)** An employer must ensure that a worker does not enter a workplace where a flammable or explosive substance is present in the atmosphere at a level that is more than 10% of the lower explosive limit of that substance.

**19.8(2)** Subsection (1) does not apply to a firefighter engaged in an emergency operation that is subject to Part 42 (Firefighters).

### **Hot work**

**19.9(1)** An employer must ensure that hot work is performed in accordance with the *Manitoba Fire Code*.

**19.9(2)** Before any hot work begins, an employer must ensure that a container or piping that contains or has contained a flammable substance is purged using an effective removal method.

**19.9(3)** An employer must ensure that welding or cutting of metal that has been cleaned with a flammable or combustible liquid or flammable gases does not take place until the metal has thoroughly dried.

### **Compressed gas equipment**

**19.10** An employer must ensure that all compressed gas cylinders are stored in accordance with the *Manitoba Fire Code*.

### **Definition: "container"**

**19.11** In this Part, "**container**" means a stationary or portable vessel or receptacle used to contain a flammable substance such as a tank, tank car, tank truck or a cylinder.

## Ontario (Industrial Establishments Regulation)

**63.** A process that is likely to produce a gas, vapour, dust or fume, to such an extent as to be capable of forming an explosive mixture with air shall be carried out in an area which has provision for safe disposal by burning under controlled conditions or in an area which,

- (a) is isolated from other operations;
- (b) has a system of ventilation adequate to ensure that the gas, vapour, dust or fume does not reach a hazardous concentration;
- (c) has no potential sources of ignition;
- (d) has provision for explosion venting; and
- (e) has, where applicable, baffles, chokes or dampers to reduce the effects of any explosion. R.R.O. 1990, Reg. 851, s. 63.

**64.** Where the hazard of a dust explosion may be created by the entry of foreign particles into equipment, the equipment shall have separators which prevent such entry. R.R.O. 1990, Reg. 851, s. 64.

**65. (1)** Subject to subsection (2), a collector that collects aluminum, magnesium or other fine dust of an easily ignitable nature shall be located,

- (a) outdoors; or
- (b) in a room used solely for the housing of dust-collecting equipment which is,
  - (i) separated from the rest of the building by a dust-tight partition having a minimum fire-resistance rating of one hour, and
  - (ii) constructed to provide explosion venting to the outdoors.

**(2)** Subsection (1) does not apply to a collector,

- (a) that uses an inert liquid as a medium to collect dust;
- (b) that is used for a wood-working operation other than wood flour manufacturing and having less than 0.47 cubic metres per second capacity;
- (c) that will safely contain explosions; or
- (d) that will resist explosions and is equipped with effective explosion venting to the outdoors. R.R.O. 1990, Reg. 851, s. 65.

**66.** A compressed air or other compressed gas blowing device shall not be used for blowing dust or other substances,

- (a) from clothing worn by a worker except where the device limits increase in pressure when the nozzle is blocked; or
- (b) in such a manner as to endanger the safety of any worker. R.R.O. 1990, Reg. 851, s. 66.

**Quebec (Regulation respecting occupational health and safety):**

**DIVISION VIII**

**COMBUSTIBLE DUSTS AND DRY MATERIALS**

**54. Preventive cleaning:** All rooms where combustible dusts are generated shall be cleaned as often as necessary to prevent the accumulation of dusts on floors, beams, equipment, and machines, in quantities that can present a fire or explosion hazard.

**55. Static electricity:** The rules provided for in section 52 apply in areas or rooms containing combustible dusts that present a fire or explosion hazard.

**56. Flammable source:** No flammable source is permitted in areas where combustible dusts present a fire or explosion hazard. Smoking is prohibited.

**57. Fire or explosion hazard:** Machines and equipment presenting a fire or explosion hazard due to combustible dusts, shall be so located, constructed, enclosed or purged as to protect employees near such machines or equipment.

**58. Collection and processing systems:** In addition to the requirements of section 108, every blower, conveyor, transfer or processing system for pulverized combustible dust and any other suspended matter presenting a fire or explosion hazard must be designed, built, installed, used and maintained in compliance with the following standards according to their respective application:

- (1) NFPA Standard 61-2002 Prevention of Fires and Dust Explosions in Agricultural and Food Processing Facilities;
- (2) NFPA Standard 484-2002 Combustible Metals, Metal Powders and Metal Dusts;
- (3) NFPA Standard 664-2002 Prevention of Fires and Explosions in Wood Processing and Woodworking Facilities.

For any other field of application, the system must comply with NFPA Standard 654-2000 Prevention of Fire and Dust Explosions from the Manufacturing, Processing and Handling of Combustible Particulate Solids.

Any system referred to in the first paragraph installed before 4 January 2007 must comply with one of those standards or with the standard applicable at the time of the installation of the system.

**59. Enclosed dust collectors:** Every enclosed collector for combustible dust or any other suspended matter presenting a fire or explosion hazard must

(1) be designed, manufactured and maintained according to the rules of the trade;  
and

(2) be placed and installed

(a) outside a building if provided with explosion vents in compliance with NFPA Standard 68-1998 Guide for Venting of Deflagrations; vents already installed on collectors on 4 January 2007 must also comply with that standard or with the standard applicable at the time of installation of the vents and be in good order;

(b) inside a building in either of the following cases:

(i) if adjacent to an outside wall or ceiling towards which the explosion vents are channelled by explosion proof ducts and if they comply with NFPA Standard 68-1998 Guide for Venting of Deflagrations; vents already installed on the collectors on 4 January 2007 must also comply with that standard or with the standard applicable at the time of the installation of the vents and be in good order; or

(ii) if equipped with an automatic explosion prevention system in compliance with NFPA Standard 69-2002 Explosion Prevention Systems; the automatic prevention systems installed on the collectors on 4 January 2007 must also comply with that standard or with the standard applicable at the time of the installation of the systems and be in good order.

**59.1. Open dust collectors:** Every open collector for combustible dust or any other suspended matter presenting a fire or explosion hazard and used in the wood industry may be placed and installed inside a building

(1) if it is not connected to a sander or abrasive planer with mechanical feed;

(2) if its capacity does not exceed 2.4 m<sup>3</sup> per second;

(3) if the fan motor is designed for Class II or III locations according to the Canadian Electrical Code, First Part, Nineteenth Edition, CSA Standard C22-10-04 with Québec Amendments;

(4) if it is emptied as needed sufficiently often to ensure safety and collecting efficiency;

(5) if installed at least 6 m from a work station, a travelway or an emergency exit, unless a protective blast screen, such as a steel sheet, a fire-resistant synthetic sheet or a gypsum wall, is installed between the station, the travelway or the exit and the open dust collector if it is not possible to comply with that distance; and

(6) where there is more than one open dust collector, if the collectors are at least 6 m apart, unless a protective blast screen, such as a steel sheet, a fire-resistant synthetic



sheet or a gypsum wall is installed between the collectors if it is not possible to comply with that distance.

For the purposes of this section, "open dust collector" means equipment for the separation of air from solid particles designed and used to remove dust and having the following features:

- (1) filtering is done by dust-laden air passing through a filtering element that gathers dust inside the filter and allows clean air to return to the ambient air;
- (2) the filtering element is not enclosed or installed in a rigid casing;
- (3) the filtering element is not shaken mechanically or by pulsed air jets;
- (4) the filtering element is under positive pressure; and
- (5) the cleaning of collected dust is neither continuous nor mechanical.

**60. Silos:** Silos used for storing dry combustible substances shall be:

- (1) made of fire resistant materials;
- (2) provided with covers and adequate ventilation;
- (3) provided with explosion vents complying with NFPA Standard 68-1998 Guide for Venting of Deflagrations, where there is a risk of explosion. Vents already installed in silos on 2-August 2001 may also be used if they comply with a previous text of that standard and are in good working order.

**303. Combustible dusts:** No worker may enter or be present in an enclosed area where there are combustible dusts posing a risk of fire or explosion unless the safety of the worker is ensured by the implementation of one of the following procedures:

- (1) by maintaining and controlling such dusts at a safe level;
- (2) by controlling existing ignition sources in the enclosed area associated with the training of the worker, by a qualified person, on the methods and techniques to be used for performing the work safely;
- (3) by making the atmosphere in the enclosed area inert, associated with the worker wearing the respiratory protective equipment specified in section 45 and the training of the latter in compliance with paragraph 2.

**304. Hot work:** Wherever hot work is performed in an enclosed area, a worker may only enter or be present therein if the following conditions are met:

- (1) the conditions provided under sections 302 and 303;
- (2) a continuous monitoring of the concentration of inflammable gases and vapours found therein is carried out by a direct reading instrument equipped with an alarm.

## **DIVISION XXVII**

### **WELDING AND CUTTING**

**313. Prohibition:** Welding and cutting operations are prohibited close to combustible substances or in places containing flammable gases or vapours or combustible dusts presenting a fire or explosion hazard, unless special precautions are taken to prevent any risk of fire or explosion.

Dick, Joan L LCTZ:EX

---

**From:** Freeman, Donna [Donna.Freeman@worksafebc.com]  
**Sent:** Wednesday, April 25, 2012 11:39 AM  
**To:** Greer, David GCPE:EX; Macnaughton, Jason GCPE:EX; Jensen, Allison H GCPE:EX  
**Cc:** Dick, Joan L LCTZ:EX; Walman, Barbara J. LBR:EX; Henderson, Kim N LCTZ:EX  
**Subject:** Questions-ministry.doc



Questions-ministr  
y.doc

Here are the answers to the questions David sent over yesterday.

s13

s13

Dick, Joan L LCTZ:EX

---

**From:** Greer, David GCPE:EX  
**Sent:** Wednesday, April 25, 2012 12:13 PM  
**To:** Plant, Graham LCTZ:EX; Dick, Joan L LCTZ:EX; Henderson, Kim N LCTZ:EX; Walman, Barbara J. LBR:EX  
**Subject:** FW: PG Mill Fire \*ROLLING IN UPDATE\*  
**Attachments:** EMBC - PG Mill Fire - Rolling BKG - 25 Apr 2012.docx

---

**From:** McCaffrey, Julianne GCPE:EX  
**Sent:** Wednesday, April 25, 2012 12:07 PM  
**To:** Coburn, Lindsay JAG:EX; Denlinger, Becky JAG:EX; Duffy, Chris D JAG:EX; GCPE Comm Directors; GCPE Comm Managers; GCPE EMBC Communications; Gleeson, Kelly T GCPE:EX; Gordon, Matt GCPE:EX; Kerr, Carleen JAG:EX; Kryzanowski, Kell JAG:EX; McLintock, Barbara J JAG:EX; Mentzelopoulos, Athana GCPE:EX; Ritchie, Dave JAG:EX; Tomaz, David JAG:EX; Wanamaker, Lori JAG:EX; Wolford, Jessica JAG:EX  
**Subject:** PG Mill Fire \*ROLLING IN UPDATE\*

X-Ministry Update as of 12:00 for Minister Shirley Bond

- This document will be updated at 4:00 pm due to decreased amounts of information being received. Urgent updates will be disseminated as required.
- Please treat the information within as internal/confidential.
- Revised information has been highlighted in yellow.
- Please direct updates to myself for the next version of this document by no later than 3:45 p.m.
- **For the sake of expedience, considering the number of agencies involved, please use the appended document as a template and highlight in yellow your revisions/additions that you wish to be incorporated in the next version.**

Julianne

---

**Julianne McCaffrey | Manager**  
Emergency Management B.C. Communications  
525 Fort St., Victoria, B.C. | tel. 250.953.4062

Monitor B.C.'s [Emergency Advisories](#)  
Join us: [Twitter](#), [Facebook](#), [Flickr](#), [YouTube](#)





This email (including attachments) may contain information that is privileged, confidential or exempt from disclosure under applicable law. Unauthorized copying or distribution of any information herein is strictly prohibited and may constitute a criminal offence, a breach of Provincial and/or Federal privacy laws, or might otherwise result in legal sanctions. If you are not an intended recipient, any review, reproduction, dissemination, or other use is prohibited. If you receive this email in error, please notify by phone (250-953-4062) or return email, and destroy this email and any copies.

TEAMWORK CURIOSITY PASSION SERVICE COURAGE ACCOUNTABILITY

I N T E G R I T Y

CURRENT: 25 April 2012 @12:00

NEXT UPDATE: 25 April 2012 @16:00

Please Note: this document is generated for GCPE intelligence sharing, it is not a situation report generated by Emergency Management BC (EMBC). A daily sit-rep is produced by EMBC at 14:00 and a daily coordination call with stakeholders at 16:00.

## GCPE INTER-MINISTRY INTEL

### Ref: Prince George Mill Fire

#### AGENCY INVOLVEMENT

AGENCY	DETAILS	CONTACT
RCMP	Lead agency, investigating.	Donna Sitter
MoH	Engaged through Northern Health & BCAS.	Michelle Stewart
EMBC	Not directly engaged, monitoring.	Julianne McCaffrey
JAG	Lead Minister. Responding to media.	Tasha Schollen
BCCS	Regional Coroner deployed, investigating.	Barb McLintock
OFC	Not directly engaged, monitoring.	Julianne McCaffrey
FLNRO	Monitoring.	Vivian Thomas
WorkSafe	Involved in meetings.	David Greer
BC Safety	Monitoring.	Paul Woolley
MoE	Directly engaged, monitoring.	Dan Gilmore
BCAS	Engaged during immediate transport of patients	Kelsie Carwithen
JTI	Monitoring.	Hayden Lansdell
LABOUR	Engaged in meetings.	Jason Macnaughton

#### IMPACTS:

- Two deceased, several critically injured with serious burns.
- Four patients were being transferred by air ambulance from UHNBC, 2 patients have been transferred to Vancouver General, 1 to Edmonton, 1 to Royal Jubilee. Six remain at UHNBC in serious condition, 13 patients have been treated and released.
- The patient that had been shipped to Edmonton for critical care succumbed to his injuries Monday night, his name has not been released.
- The company, through Walmsley and Associates, is providing direct support for employees. Counsellors are available all day at Coast Inn of the North in the

Gleason Room for individual support and future problem solving for families and employees of the mill. The contact phone is (250) 564-1000.

#### **MEDIA ANGLES:**

- BC Coroner releases name of first victim and announces second related death.
- Sawdust and increased combustibility of pine beetle wood a possible culprit.
- Labour Ministry instructing WorkSafe to perform immediate safety audit of mills.
- Labour Minister meeting with WorkSafe BC, COFI, United Steelworkers today.
- Justice Minister instructs WorkSafe to expedite investigation.

#### Updates

#### **ABORIGINAL RELATIONS & RECONCILIATION:**

- No explicit impacts identified, although it is assumed that some of the mill workers impacted (physically or by discontinued mill operations) could be aboriginal.

#### **BC AMBULANCE:**

- BCAS immediately initiated a coordinated response and sent ground ambulances to the scene. Five from Prince George, two from Vanderhoof, two from Quesnel, as well as a Medical Support Unit.
- The BCAS Technical Advisor provided direction on hazards and decontamination.

#### **BC SAFETY AUTHORITY:**

- BCSCA has an electrical permit on the site (pressure valve) but nothing related to gas equipment.

---

#### **CORONER SERVICES:**

- Two deceased; one patient succumbed to injuries at University Hospital of Northern BC (Alan Little, 43) and the other died after air transport to a hospital in Edmonton (name withheld pending notification of next of kin).

#### **ENVIRONMENT:**

- No indication there is significant impact on the environment.
- An Environmental Emergency Response Officer (EERO) was at the mill site and worked closely with fire fighters and police to minimize the impact on the environment.
- The Ministry is focussed on mitigating any impacts to air quality from the smoke and any runoff from the site into the environment. The mill site has ditches and berms in place to contain and prevent runoff from entering the Fraser River.
- An air quality advisory has not been issued.

#### **FIRE COMMISSIONER:**

- Inspections are the responsibility of the local Fire Dept, the industrial owner and Worksafe. The owner is always responsible to ensure the BC Fire Code and regulations are followed.

- Either RCMP, PG Fire Dept or Worksafe could request our assistance with the investigation going forward.
- OFC has offered assistance to PG Fire, however, they have not been requested.

#### FLNRO:

- Mill has production capacity of 154 million board feet and employs about 170 people. It has 2 forest licences in the Prince George TSA:
  - Replaceable forest licence – 249,827 m3/year
  - NRFL – 80,000 m3/year (expires Dec 31, 2014)
- The mill was owned and operated by three long-term local residents, *Ivan Andersen, Bob Stewart* and *George Killy*, from 1973 until 1995, when Mr. Killy sold his interest in the company to Canadian Forest Products Ltd. It is affiliated with the Sinclair Group of Companies (which includes Appollo (Fort St. James), L&M Lumber (Vanderhoof)).
- Lakeland's primary products are premium grade, precision end-trimmed kiln dried 2x4 studs, as well as 2x6 and 2x3 studs, and 1x3 and 1x4 board stock. Byproducts include wood chips and hog fuel.

#### HEALTH:

- Northern Health received and treated a total of 24 patients – including a number with serious burns. 4 patients transferred by air ambulance from UHNBC.
- Two patients succumbed to injuries.
  - 2 patients have been transferred to Vancouver, 1 to Edmonton (later deceased), 1 to Royal Jubilee.
  - 5 remain at UHNBC in serious condition.
  - 14 patients have been treated and released.
- ~~Northern Health called a code orange at approximately 10 pm, which is standard practice when there is an incident of this nature; it was lifted at 1:30 a.m.~~

#### JOBS, TOURISM INDUSTRY:

- No actions reported

#### RCMP:

- 9:38 received calls re: explosion. Fire department responded with RCMP.
- 50 working in the mill at the time; 25 in the planer mill were all accounted for – no explosion in that part. But in the saw mill there were also 25 working. 13 uninjured, 7 injured – some with severe burns.
- RCMP will interview workers and begin sit investigation once safe to do so.
- There are some other businesses nearby but their main problem will be access.

not responsive

### **WORKSAFE BC:**

- WorkSafeBC has issued orders to all sawmill employers in B.C. directing that they conduct a full hazard identification, risk assessment and safety review with particular focus on combustible dust; dust accumulation; and potential ignition sources.
- At present WorkSafeBC does not have reasonable grounds to order sawmills closed. But will not hesitate to take such action should the circumstances warrant it.
- Meeting with government, industry, union on safety conditions in mills today. Inspectors going to mills around the province to check for safety.
- **(REF: PRINCE GEORGE)** The incident remains RCMP, BC Coroner and WorksafeBC jurisdiction. WorkSafe will commence its investigation as soon as the site is released by both agencies and it is safe to do so.
- **(REF: BURNSLAKE)** ~~The status of the Burns' Lake investigation is that the site has~~ been returned to the employer; equipment that must be examined has been removed from the site and transferred to independent laboratories for testing and analysis. Information gathered from witnesses continues to be analysed.
- WorksafeBC is not in a position to release information regarding the investigation into the tragic deaths and injuries at the Babine Mill in Burns Lake at this time
- While recognising that there are similarities between the two explosions, both are sawmills, dust was present in both, as in all sawmills, and both mills were working with beetle-infested wood. We cannot speculate, based on these similarities as to the cause of these events.

## **KEY MESSAGES**

- Our thoughts and prayers are with all the families impacted, particularly with the families of the two workers who did not survive this tragedy.
- I applaud the incredible response from emergency responders and health care professionals for their response.
- The response within the community has been remarkable - emergency officials managed to keep the fire from spreading under extremely adverse conditions, neighbours rushed onto the scene to offer their assistance and health officials

worked through the night treating the injured. Prince George is truly a steadfast, caring community.

- The local authority remains the lead in the local emergencies. The Province is at the ready to respond in whatever way that the local fire or City of PG requests it.
- Once the site is rendered safe by the PG Fire Department, the investigating teams will have a clearer picture of what work needs to be undertaken.
  - However, many agencies are already on the ground: RCMP, BC Coroners, WorkSafe BC are already engaged.
  - BUT it is critical that at this time when there are people gravely ill and there has been a loss of life, that our focus remains on the care and prayers for the workers and their families.
  - It is premature and would be irresponsible to speculate on cause before investigations have been undertaken. These investigations will take place and until then, we remain focussed on supporting the workers and their families.
- The province is committed to supporting the community as we look to the future.

**IF ASKED:**

- Yes we are aware of a minor fire that occurred at the Lakeland site on February sixth. We understand a small blaze occurred in the sawdust collection system.
- We understand Lakeland Mills has its own fire protection crews on-site however PG Fire Rescue assisted to ensure the incident remained contained and all the hotspots were fully extinguished.
- Again it would be premature to link these two events...

**BACKGROUND:**

- On April 23, 2012 at approximately 9:38 PM the Prince George Fire Department were called to a report of an explosion at the Lakeland Sawmills located on River Road in Prince George.
- Emergency crews, BC Ambulance and Prince George RCMP attended the scene to find the Sawmill engulfed in flames.
- Emergency Crews were advised that there were approximately 50 employees on site at the time of the explosion: 25 employees working in the planer mill were uninjured as the explosion had occurred in the filing area of the mill. The remaining 25 employees have been accounted for.
- Prince George Fire Chief John Lane advised that the fire was too dangerous to maintain and therefore crews were letting the fire burn out.
- Lakeland Sawmill is located in an industrial area of Prince George near the CN Railway yard which was not affected by the fire.
- No other homes or businesses reported damage, no evacuations resulted.
- PG Fire, RCMP, Coroner's Office and Worksafe met and are using a team approach for interviewing witnesses and information gathering, and have determined jurisdictional boundaries as follows:
  - RCMP will retain jurisdiction until a criminal element can be ruled out.
  - Coroner's office will then step in until it can be determined that no one else has perished at the scene.



- Worksafe will take final control of the scene and will be working with PG Fire during the Fire investigation phase of the process.
- Worksafe will ensure the site is completely safe before anyone enters – this could take a couple of days.

Dick, Joan L LCTZ:EX

---

From: Henderson, Kim N LCTZ:EX  
Sent: Wednesday, April 25, 2012 1:34 PM  
To: Greer, David GCPE:EX  
Cc: Macnaughton, Jason GCPE:EX; Dick, Joan L LCTZ:EX; Plant, Graham LCTZ:EX  
Subject: RE: Notes

Will find out when I email these to David.

-----Original Message-----

From: Greer, David GCPE:EX  
Sent: Wednesday, April 25, 2012 1:09 PM  
To: Henderson, Kim N LCTZ:EX  
Cc: Macnaughton, Jason GCPE:EX; Dick, Joan L LCTZ:EX; Plant, Graham LCTZ:EX  
Subject: RE: Notes

Looks good to me. Is WS doing any kind of public release around their order or just operational?

-----Original Message-----

From: Henderson, Kim N LCTZ:EX  
Sent: Wednesday, April 25, 2012 12:35 PM  
To: Greer, David GCPE:EX  
Cc: Macnaughton, Jason GCPE:EX; Dick, Joan L LCTZ:EX; Plant, Graham LCTZ:EX  
Subject: Notes

Here are my notes of the meeting summary, we committed to email a summary around to all the participants which I will do a bit later once you guys have had a look.

Industry, employers, workers and WS all have advice and information that can be brought to the table, agree all need to share to focus on worker safety and prevention.

WS will provide an order and information on combustible dust that will give some guidance to mill operators around the province, that will be released shortly. (actually tomorrow). WorkSafe will have officers on site in every sawmill in the province to review risk assessments by the end of the first week of May.

A workgroup will be convened urgently that will include the union, industry and WorkSafe to share best practices, tips, in a plain language way to mitigate hazards. The group today agreed it is important we not speculate on the specific causes of these two major events, however, two factors are in common between these mills, combustible dust and the processing of pine

beetle wood. As much practicable information as can be shared will be shared with mill operators and workers to assure safety in mills across BC. WorkSafe will also share what can be ruled out in terms of their current ongoing investigation.

All agreed that the nature of the industry is changing, in regards to the age of wood being processed and techniques creating finer particulate dust. Research is needed that can be shared with industry, union and WorkSafe that will lead to new standards and regulations to reflect this changing nature of this business.

## Dick, Joan L LCTZ:EX

---

**From:** Freeman, Donna [Donna.Freeman@worksafebc.com]  
**Sent:** Wednesday, April 25, 2012 2:34 PM  
**To:** Greer, David GCPE:EX; Dick, Joan L LCTZ:EX  
**Cc:** Ellis, Roberta WCB:EX; Johnston, Megan WCB:EX  
**Subject:** inspection history

**Importance:** High



31964 - Lakeland  
Mills severed..

These are the inspection reports that will be posted on our online newsroom in about an hour for media. I've gone through them and the inspection reports cover the following:

- 2007 – serious injury, workers on scissor-lift struck by forklift
- inadequate safety systems and processes for heavy equipt
- 2007 -recent fatality in wood processing
- issue guarding and lock-out
- 2008 -guarding issue
- 2009 -repetitive strain and MSI issues as dealt with by OHS committee
- 2009 -high risk strategy review for injury reduction
- safety procedures/equipt
- 2009 -worker transportation and road safety issues
- 2010 -OHS committee meeting regularly
- training and orientation issues
- MSIs
- Safeguarding
- hearing testing
- 2010 -failure of a truck hoist
- 2011 -steep ground concerns at cable yarding worksite
- 2011 -steep slope issues in forestry operations – risks not identified
- 2011 -use of mobile equipt
- safe procedures when driving
- 2011 -serious injuries to worker's leg
- caught in roller chain sprocket

- lockout issues
- no written safe work procedures
- 2011 -safeguarding deficiencies
- 2012 -consultation inspection of upgraded facility
- review of recent fire
- review of wood dust – below exposure levels
- 2012 -resource road use

Dick, Joan L LCTZ:EX

---

From: MacDiarmid, Margaret LCTZ:EX  
Sent: Wednesday, April 25, 2012 6:25 PM  
To: Dick, Joan L LCTZ:EX  
Subject: Re: Globe and Mail Online: WCB issued no orders despite concern over sawdust levels

s13

Thanks for sending the reports down.

Margaret

Sent from my iPad

On 2012-04-25, at 5:56 PM, "Dick, Joan L LCTZ:EX" <[Joan.Dick@gov.bc.ca](mailto:Joan.Dick@gov.bc.ca)> wrote:

M:

I called Donna AND had looked at the pertinent inspection reports. I have printed off, highlighted and will deliver to you.

s13



s.13

J.

---

**From:** MacDiarmid, Margaret LCTZ:EX  
**Sent:** Wednesday, April 25, 2012 4:55 PM  
**To:** Dick, Joan L LCTZ:EX; Plant, Graham LCTZ:EX  
**Subject:** Fw: Globe and Mail Online: WCB issued no orders despite concern over sawdust levels

s13

Thanks  
M

---

**From:** [tno@gov.bc.ca](mailto:tno@gov.bc.ca) [<mailto:tno@gov.bc.ca>]  
**Sent:** Wednesday, April 25, 2012 03:58 PM  
**Subject:** Globe and Mail Online: WCB issued no orders despite concern over sawdust levels

s3

TNO...

This e-mail is a service provided by Today's News Online and is only intended for the original addressee. All content is the copyrighted property of a third party creator of the material. Copying, retransmitting, redistributing, selling, licensing, or emailing the material to any third party or any employee of the Province who is not authorized to access the material is prohibited.

Dick, Joan L LCTZ:EX

---

**From:** Henderson, Kim N LCTZ:EX  
**Sent:** Thursday, April 26, 2012 8:08 AM  
**To:** Mauch, Anne  
**Cc:** morfitts@telus.net; Hert, Reynold; Pirs, Betty WCB:EX; shunt@usw.ca; Lineen, Peter; Allan, John; bmattess@usw.ca; Anderson, David WCB:EX; Dick, Joan L LCTZ:EX; Walman, Barbara J. LBR:EX  
**Subject:** Re: Summary of Meeting

Thanks for your comment Anne. I will commit to doing that using this email list.

On 2012-04-26, at 6:24 AM, "Mauch, Anne" <Mauch@cofi.org> wrote:

Thank you Kim.

It was not part of the discussion, I think it would useful to ensure there is a mechanism for this group to be informed of progress on a regular basis.

Anne Mauch

---

**From:** Henderson, Kim N LCTZ:EX [mailto:Kim.Henderson@gov.bc.ca]  
**Sent:** Wed 25/04/2012 2:33 PM  
**To:** morfitts@telus.net; Hert, Reynold; Pirs, Betty WCB:EX; shunt@usw.ca; Mauch, Anne; Lineen, Peter; Allan, John; bmattess@usw.ca; Anderson, David WCB:EX  
**Cc:** Dick, Joan L LCTZ:EX; Walman, Barbara J. LBR:EX  
**Subject:** Summary of Meeting

On behalf of Minister MacDiarmid, once again thank you for taking the time to meet this morning. Please find below a draft summary of our discussion and next steps. Please let me know if you have any clarifications or questions.

Industry, employers, workers and WS all have advice and information that can be brought to the table, agree all need to share to focus on worker safety and prevention.

WSBC is issuing an order and accompanying guidelines directing every sawmill in BC to conduct a undertake a comprehensive risk assessment with respect to hazards created by combustible dusts and potential ignition sources, and create and implement an effective combustible dust control program based upon that assessment. Failure to comply with this order without undue delay will result in further action, including possible sanctions and stop work orders . WorkSafe will have officers on site in every sawmill in the province to review risk assessments by the end of the first week of May.

A workgroup will be convened urgently that will include the union, industry and WorkSafe BC to share best practices, tips, in a plain language way to mitigate hazards. The group today agreed it is important we not speculate on the specific causes of these two major events, however, two factors are in common between these mills, combustable dust and the processing of pine beetle wood. As much practicable information as can be shared will be shared with mill operators and workers to assure safety in mills across BC. WorkSafe BC will also share what can be ruled out in terms of their current ongoing investigation.

All agreed that the nature of the industry is changing, in regards to the age of wood being processed and techniques creating finer particulate dust. Research is needed that can be shared with industry, union and WorkSafe BC that will lead to new standards and regulations to reflect this changing nature of business.

WorkSafe BC will take the responsibility in convening both the working group and a group to coordinate efforts on research and standards.

Kim Henderson  
Deputy Minister  
Ministry of Labour, Citizens' Services and Open Government  
phone: (250) 387-8852

Dick, Joan L LCTZ:EX

---

From: Kerr, Carleen JAG:EX  
Sent: Thursday, April 26, 2012 4:25 PM  
To: Plant, Graham LCTZ:EX  
Cc: Dick, Joan L LCTZ:EX  
Subject: Re: Sawmill safety

Thanks! I'll let you know.  
Kind regards,  
Carleen Kerr

----- Original Message -----

From: Plant, Graham LCTZ:EX  
Sent: Thursday, April 26, 2012 04:24 PM  
To: Kerr, Carleen JAG:EX  
Cc: Dick, Joan L LCTZ:EX  
Subject: Fw: Sawmill safety

See messaging below. Let me know if you need anything more specific.

----- Original Message -----

From: Macnaughton, Jason GCPE:EX  
Sent: Thursday, April 26, 2012 04:22 PM  
To: Plant, Graham LCTZ:EX; Greer, David GCPE:EX  
Subject: RE: Sawmill safety

More comprehensive version:

- This was a tragic incident, and my thoughts are with everyone who was affected.
- Our first priority is meeting the immediate needs of the community - and we continue to provide full support, through Northern Health, grief counsellors and WorkSafe BC.
- The province is committed to supporting both communities as we look to the future.
- WorkSafeBC has a team of prevention, enforcement, investigations and claim staff on site.
- This team is providing critical ground-level support for the workers and their families, and will be there for the days and weeks to come.

- WorkSafeBC has issued orders to all sawmill employers in B.C. directing that they conduct a full hazard identification, risk assessment and safety review with particular focus on combustible dust; dust accumulation; and potential ignition sources.
- At present WorkSafeBC does not have reasonable grounds to order sawmills closed. We will not hesitate to take such action should the circumstances warrant it.
- While recognizing that there are similarities between the two explosions, both are sawmills, dust was present in both, as in all sawmills, and both mills were working with beetle-infested wood.
- We cannot speculate, based on these similarities as to the cause of these events.
- The safety and inspection history of any employer is part of any investigation.
- WorkSafeBC is reviewing the safety history at this mill and working closely with RCMP authorities.
- WorkSafeBC clearly understands that we need to know as soon as possible what happened in Burns Lake and Prince George.
- They [WorkSafeBC] understand that if there's anything that even looks like it could possibly be a cause that would help with respect to worker safety going forward, they have to release that information as soon as possible.
- Prior to this incident (PG), WorkSafeBC had increased their inspections, and in many mills around the province people were looking at dust.
- Even though the cause of the explosion wasn't known, people know that sawdust is explosive, so if something gets it going, there's a potential there for an explosion. So this kind of activity had already been happening. Now what is happening is it's going to be everywhere in the province at all of these mills, over 300 mills.
- The [WorkSafeBC] order will go out, along with some background information today, and then the inspections will begin, in mills around the province. In some areas this work had already begun. So work to minimize sawdust accumulation and those kinds of things has already been going on since the first explosion; so in some places it will have already started, and I understand there were mills that started this work today as well.
- On Wednesday, Minister MacDiarmid met with members and representatives from the Steelworkers union, from industry, from WorkSafe and from the Safety Authority. It was a very good meeting as everyone is committed to working together to prevent such a tragedy from ever happening again. In fact, they committed to form a working group to do just that.
- This is not a time for speculation - this is a time for full steam ahead on the investigation, and as soon as details can be responsibly shared, they will be.



-----Original Message-----

From: Plant, Graham LCTZ:EX  
Sent: Thursday, April 26, 2012 3:41 PM  
To: Greer, David GCPE:EX; Macnaughton, Jason GCPE:EX  
Subject: Fw: Sawmill safety

Can you assist?

----- Original Message -----

From: Kerr, Carleen JAG:EX  
Sent: Thursday, April 26, 2012 03:18 PM  
To: Plant, Graham LCTZ:EX  
Subject: Re: Sawmill safety

Thanks! Just in relation to the explosion and the announcement and meeting - that would be great!  
Kind regards,  
Carleen Kerr

----- Original Message -----

From: Plant, Graham LCTZ:EX  
Sent: Thursday, April 26, 2012 03:18 PM  
To: Kerr, Carleen JAG:EX  
Subject: Re: Sawmill safety

You bet. No IN on sawmill safety specifically, but we'll get you some material.

----- Original Message -----

From: Kerr, Carleen JAG:EX  
Sent: Thursday, April 26, 2012 03:16 PM  
To: Plant, Graham LCTZ:EX  
Subject: Sawmill safety

Hey Graham,

MSB is doing Voice of BC tonight - can you pls share your recent IN on the above subject? also anything else you think could be helpful in relation to PG Kind regards, Carleen Kerr

Dick, Joan L LCTZ:EX

---

**From:** MacDiarmid, Margaret LCTZ:EX  
**Sent:** Sunday, April 29, 2012 8:18 PM  
**To:** Dick, Joan L LCTZ:EX; Plant, Graham LCTZ:EX; Greer, David GCPE:EX  
**Subject:** Fwd: TNO: Blasts linked to sawdust nothing new - Gordon Hoekstra - Times Colonist (Victoria)

Hi there,

Will need to know ASAP what WorkSafe's response to this is, please.

Thanks,

Margaret

Sent from my iPad

Begin forwarded message:

**From:** "Today's News Online GCPE:EX" <[tno@gov.bc.ca](mailto:tno@gov.bc.ca)>  
**Date:** 28 April, 2012 8:35:28 AM PDT  
**Subject:** TNO: Blasts linked to sawdust nothing new - Gordon Hoekstra - Times Colonist (Victoria)

s3

s3

TERMS OF USE - This e-mail is a service provided by Today's News Online and is only intended for the original addressee. All content is the copyrighted property of a third party creator of the material. Copying, retransmitting, redistributing, selling, licensing, or emailing the material to any third party or any employee of the Province who is not authorized to access the material is prohibited.



Dick, Joan L LCTZ:EX

---

From: Freeman, Donna [Donna.Freeman@worksafebc.com]  
Sent: Monday, April 30, 2012 8:02 AM  
To: Dick, Joan L LCTZ:EX  
Subject: Re: Mill fires

Will call you as soon as i have confirmed the response with my VP.

Sent from my iPhone

On 2012-04-30, at 7:36 AM, "Dick, Joan L LCTZ:EX" <[Joan.Dick@gov.bc.ca](mailto:Joan.Dick@gov.bc.ca)> wrote:

> Donna:  
> Minister wants to know about the other fires that have been reported in media over the weekend. I am aware you were quoted as saying you would be looking into it today.  
> May I ask that once you have this information you call me?  
> I don't think waiting until the end of day briefing is an option. She will be doing other media today before then.  
> Thanks,  
> J.

CONFIDENTIALITY DISCLAIMER

The information contained in this transmission may contain privileged and confidential information of WorkSafeBC - the Workers' Compensation Board. It is intended for review only by the person(s) named above. Dissemination, distribution or duplication of this communication is strictly prohibited by all recipients unless expressly authorized otherwise. If you are not the intended recipient, please contact the sender by reply email and destroy all copies of the original message. Thank you.

Dick, Joan L LCTZ:EX

---

**From:** MacDiarmid, Margaret LCTZ:EX  
**Sent:** Monday, April 30, 2012 11:36 AM  
**To:** Greer, David GCPE:EX; Dick, Joan L LCTZ:EX; Plant, Graham LCTZ:EX  
**Subject:** Fw: CKNW: Sinclair: Hold employers accountable for workers' deaths

Hi,

Transcript would be great when possible. Just his statements about changes that supposedly increased the chances of explosions.

Thank you,  
Margaret

---

**From:** [tno@gov.bc.ca](mailto:tno@gov.bc.ca) [mailto:[tno@gov.bc.ca](mailto:tno@gov.bc.ca)]  
**Sent:** Monday, April 30, 2012 10:53 AM  
**Subject:** CKNW: Sinclair: Hold employers accountable for workers' deaths

s3

TNO...

This e-mail is a service provided by Today's News Online and is only intended for the original addressee. All content is the copyrighted property of a third party creator of the material. Copying, retransmitting, redistributing, selling, licensing, or emailing the material to any third party or any employee of the Province who is not authorized to access the material is prohibited.

Dick, Joan L LCTZ:EX

---

**From:** Greer, David GCPE:EX  
**Sent:** Monday, April 30, 2012 12:47 PM  
**To:** Dick, Joan L LCTZ:EX; MacDiarmid, Margaret LCTZ:EX; Plant, Graham LCTZ:EX  
**Subject:** FW: couple of questions  
  
**Importance:** High

---

**From:** Freeman, Donna [<mailto:Donna.Freeman@worksafebc.com>]  
**Sent:** Monday, April 30, 2012 12:46 PM  
**To:** Greer, David GCPE:EX  
**Subject:** RE: couple of questions

-WorkSafeBC inspections (overall, not just directed at sawmills) are up year over year....38,871 in 2011 compared to 26,069 in 2006.  
-Since the Burns Lake explosion we have completed 76 inspections of sawmills; in addition we made contact with all mills in the Okanagan and Kootenay areas to discuss wood dust specifically.  
-While WorkSafeBC inspections in sawmills have seen a reduction in recent years, it is consistent with the shrinkage in the industry (between 2007 and 2011 there was a 27% drop in assessable payroll and a 20% drop in the number of registered sawmill employers in BC; As a result, inspections dropped 24% between 2007 and 2011 reflecting the shrinkage in the industry  
-WorkSafeBC inspections are **always unannounced**; some workers may be confused with our attendance at Joint Occupational Health and Safety meetings or other specific meetings called to address specific issues. We would be there, but this would not be considered an inspection. In the latter case, the meeting would be a scheduled event.

*Donna Freeman*  
*Director, Media Relations*  
*WorkSafeBC*  
*604-276-3141*  
*[donna.freeman@worksafebc.com](mailto:donna.freeman@worksafebc.com)*



Dick, Joan L LCTZ:EX

---

**From:** Freeman, Donna [Donna.Freeman@worksafebc.com]  
**Sent:** Monday, April 30, 2012 6:39 PM  
**To:** Greer, David GCPE:EX; Dick, Joan L LCTZ:EX  
**Subject:** Fwd:

Sent from my iPhone

Begin forwarded message:

**From:** DONNA FREEMAN <dfreeman@shaw.ca>  
**Date:** 30 April, 2012 6:35:49 PM PDT  
**To:** "Freeman, Donna" <Donna.Freeman@worksafebc.com>

<http://www.vancouversun.com/opinion/Editorial+Ensuring+safety+other+mills+priority/6543558/story.html>

#### CONFIDENTIALITY DISCLAIMER

The information contained in this transmission may contain privileged and confidential information of WorkSafeBC - the Workers' Compensation Board. It is intended for review only by the person(s) named above. Dissemination, distribution or duplication of this communication is strictly prohibited by all recipients unless expressly authorized otherwise. If you are not the intended recipient, please contact the sender by reply email and destroy all copies of the original message. Thank you.

Dick, Joan L LCTZ:EX

---

From: Dick, Joan L LCTZ:EX  
Sent: Thursday, April 26, 2012 9:25 AM  
To: MacDiarmid, Margaret LCTZ:EX  
Cc: Plant, Graham LCTZ:EX  
Subject: Bill Good

Minister:

Here is the descriptor for your appearance on Bill Good this morning. I see that David sent it to you. Bill tends to use these as his introductory remarks.

10:30 – 10:50

MILL INSPECTIONS KICK OFF TODAY

The community of Prince George is reeling after a blast Monday night that claimed two lives. WorkSafeBC's order for safety inspections of all BC's mills will be issued today... but many people are asking why this measure wasn't taken following the fatal mill explosion in Burns Lake in January. Is sawdust the likely culprit behind both blasts? And will more research be conducted into the role the dry pine beetle wood plays in adding risk? And the Minister has also agreed to form a working group to look at sawmill safety – who will sit on that panel? And how safe are millworkers who are going to work today?

MARGARET MACDIARMID, LABOUR MINISTER

s13

Late yesterday Petty Pirs (WSBC VP Prevention Services) sent an email in followup to an email that Peter Lineen sent post meeting (I will provide you with a copy of this). Betty provided this update on the status of the working committee:

"We have set up our WorkSafe team to get this best practices workgroup going. Dale Walker will be leading it from our side and he will be contacting the meeting participants to get things going. I think we're going to separate out the research component into a separate workgroup as it may be a bit longer term. We should have the contacts identified for that workgroup identified and communicated to all shortly."

Is there any other info that you need?

J.

Dick, Joan L LCTZ:EX

---

**From:** Dick, Joan L LCTZ:EX  
**Sent:** Thursday, April 26, 2012 3:56 PM  
**To:** Sproule, Spencer PREM:EX  
**Cc:** Mills, Shane PREM:EX  
**Subject:** FW: WorkSafeBC sawmill directive & guidelines  
**Attachments:** G5 71 (2).doc; G5 81 Combustible dust - sawmill facilities - Final - 25-Apr-12 (3).doc; SawmillDirective.pdf

---

**From:** Johnston, Megan [<mailto:Megan.Johnston@worksafebc.com>]  
**Sent:** Thursday, April 26, 2012 3:51 PM  
**To:** Dick, Joan L LCTZ:EX  
**Cc:** Freeman, Donna WCB:EX  
**Subject:** WorkSafeBC sawmill directive & guidelines

Please find directive and guidelines attached.

Megan Johnston  
Communications Officer, Media Relations  
WorkSafeBC  
t 604.214.6934

*Follow WorkSafeBC Media Relations on [Twitter](#)*

Watch WorkSafeBC's live Day of Mourning webcast on Friday, April 27 at 10:30 a.m., and be a part of the tribute to workers who have lost their lives to workplace injury and disease: [www.worksafebc.com](http://www.worksafebc.com)

#### CONFIDENTIALITY DISCLAIMER

The information contained in this transmission may contain privileged and confidential information of WorkSafeBC - the Workers' Compensation Board. It is intended for review only by the person(s) named above. Dissemination, distribution or duplication of this communication is strictly prohibited by all recipients unless expressly authorized otherwise. If you are not the intended recipient, please contact the sender by reply email and destroy all copies of the original message. Thank you.

Dick, Joan L LCTZ:EX

---

**From:** Dick, Joan L LCTZ:EX  
**Sent:** Thursday, April 26, 2012 3:58 PM  
**To:** Bond, Shirley B JAG:EX; Bell, Pat JTI:EX  
**Cc:** Coburn, Lindsay JAG:EX; Ehl, Cameron JTI:EX; Plant, Graham LCTZ:EX  
**Subject:** FW: WorkSafeBC sawmill directive & guidelines  
**Attachments:** G5 71 (2).doc; G5 81 Combustible dust - sawmill facilities - Final - 25-Apr-12 (3).doc; SawmillDirective.pdf

FYI, J.

---

**From:** Johnston, Megan [<mailto:Megan.Johnston@worksafebc.com>]  
**Sent:** Thursday, April 26, 2012 3:51 PM  
**To:** Dick, Joan L LCTZ:EX  
**Cc:** Freeman, Donna WCB:EX  
**Subject:** WorkSafeBC sawmill directive & guidelines

Please find directive and guidelines attached.

**Megan Johnston**  
Communications Officer, Media Relations  
WorkSafeBC  
t 604.214.6934

*Follow WorkSafeBC Media Relations on [Twitter](#)*

Watch WorkSafeBC's live Day of Mourning webcast on Friday, April 27 at 10:30 a.m., and be a part of the tribute to workers who have lost their lives to workplace injury and disease: [www.worksafebc.com](http://www.worksafebc.com)

#### CONFIDENTIALITY DISCLAIMER

The information contained in this transmission may contain privileged and confidential information of WorkSafeBC - the Workers' Compensation Board. It is intended for review only by the person(s) named above. Dissemination, distribution or duplication of this communication is strictly prohibited by all recipients unless expressly authorized otherwise. If you are not the intended recipient, please contact the sender by reply email and destroy all copies of the original message. Thank you.

*G5.71(3) Location and construction of dust collectors*

Issued April 27, 2010

**Regulatory excerpt**

Subsection 5.71(3) of the *OHS Regulation* ("Regulation") states:

A dust collector having an internal volume greater than 0.6 m<sup>3</sup> (20 ft<sup>3</sup>) and being used to control combustible dusts must be located and constructed so that no worker will be endangered in the event of an explosion inside the collector.

**Purpose of guideline**

This guideline explains terms used in *Regulation* subsection 5.71(3) and provides guidance for locating and constructing dust collectors used to control combustible dusts so that workers will not be endangered in the event of an explosion inside the collector.

**Background**

WorkSafeBC considers the relevant National Fire Protection Association (NFPA) standards to provide acceptable guidance with respect to combustible dust collectors. There are a series of NFPA standards that are relevant to the control of fire and explosion hazards from combustible dusts and an employer should review the standard(s) relevant to the application in question. Information in this guideline references mainly the following NFPA standards, which are available for review online at <http://www.nfpa.org/>.

*NFPA 61 Standard for the Prevention of Fires and Dust Explosions in Agricultural and Food Processing Facilities (2008)*

*NFPA 484 Standard for Combustible Metals (2009)*

*NFPA 654 Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids (2006)*

*NFPA 655 Standard for Prevention of Sulfur Fires and Explosions (2007)*

*NFPA 664 Standard for the Prevention of Fires and Explosions in Wood Processing and Woodworking Facilities (2007)*

In addition, there are specifications in the *BC Building Code* (e.g., edition 2006, articles 3.3.1.20 and 6.2.2), *BC Electrical Code Regulation (2009)* - Chapter 18, and the *BC Fire Code*, (e.g., edition 2006 article 5.3) with respect to protection from fires and explosions of combustible dust.

Employers should not rely solely on the generic information in this guideline to minimize hazards that could lead to a dust explosion. The entire relevant standard(s) or code(s) should be consulted for complete information.

**What is a “dust collector having an internal volume greater than 0.6 m<sup>3</sup> (20 cu. feet)?”**

A dust collector is one component of a dust collection system. The collection system is a pneumatic conveying system that is specifically designed to capture dust at the point of generation, sometimes from multiple pieces of equipment, and convey the particulate to a point of collection. The system includes the collection hood, conveyance ducting, and flexible hoses, exhaust fan, motor, and dust collector. The dust collector, also called an air-material separator, is a device used to separate the particulate material from the air stream, and includes but is not limited to cyclones, baghouse and media-type filter collectors, wet-type collectors, electrostatic precipitators, and enclosureless units.

A *cyclone* is defined in *NFPA 664* as a cylindrical type of dust collector used to separate particulate from the air stream by centrifugal force, having an enclosure of circular cross-section, a tangential air and material inlet, an air exhaust outlet, and a material discharge. In order to determine whether subsection 5.71(3) is applicable, the internal volume of the dust collector needs to be determined. The internal volume of a cyclone is considered to be the volume of the collector from the tangential inlet through the cylindrical and conical area, and includes the chute and dust container that holds the captured dust.

A *baghouse* dust collector is an air-material separator designed and used to remove dust from the transport air through a filter medium of suspended bags that are contained within an enclosure. The internal volume is considered to be the total volume inside the enclosure from the entrance point of the air-particle mixture, and includes the volume of the container designed to hold the captured dust.

*NFPA 664* defines an *enclosureless dust collector* as an air-material separator where filtration is accomplished by passing dust-laden air through filter media, collecting the dust on the inside of the filter media and allowing cleaned air to exit to the surrounding area (Note: See also *Regulation* section 5.70 and guideline G5.70 for information about requirements for discharged air). The filter medium is not enclosed, is hand shaken and is under positive pressure during use. Removal of the collected dust is not continuous or mechanical. The internal volume of an enclosureless dust collector is considered to be the air volume inside all the bags plus the air volume of the container designed to hold the captured dust.

If the manufacturer's specifications for a dust collector do not include the internal volume of the dust collector, this volume can be calculated from measurements of height and area.

### **What is a combustible dust?**

*NFPA 654* defines combustible dust as a combustible particulate solid that presents a fire or deflagration\* hazard when suspended in air or some other oxidizing medium over a range of concentrations, regardless of particle size or shape. This definition replaces a previous definition that required the particles to be, on average, less than 420 micron (0.017 inch) diameter (capable of passing through a U.S. No. 40 Standard Sieve). The newer definition applies more broadly to include elongated particles such as paper dust and some agglomerates, for which particle diameter is not a useful concept.

\*NFPA Standards and this guideline use the term “deflagration.” Deflagration is the propagation of a pressure wave (at a speed less than the speed of sound) from the ignition of a combustible dust, and includes both fires and explosions. An explosion can occur if the deflagration occurs in an enclosed space such as a dust collector, duct, or building.

Not all dusts are combustible. For example, substances that are stable inorganic oxides (e.g., silicates, sulphates, phosphates, and carbonates) are not combustible. Therefore dust clouds of Portland cement, sand, limestone, etc. are not combustible.

Materials that are combustible and that can give rise to dust explosions include, but are not limited to

- Food products (e.g., grain, cellulose, powdered milk, sugar, flour, starch, etc.)
- Natural organic materials (e.g., wood dust, wood flour, textiles such as cotton dust and nylon dust, biosolids, etc.)
- Synthetic organic materials (plastics such as phenolics and polypropylene, resins such as lacquer and phenol-formaldehyde, organic pigments, pharmaceuticals, pesticides, etc.)
- Coal and peat
- Metals (e.g., aluminum, magnesium, zinc, iron, etc.)

Combustible dusts have varying limits of flammability. These are usually expressed in terms of grams per cubic metre. For example, aluminum dust may be listed as requiring an airborne concentration of 30 grams per cubic metre for a combustible atmosphere to exist whereas coal dust may require 60 grams per cubic metre. A layer of dust as thin as a dime dispersed throughout a room can create an explosion hazard.

*NFPA 499 Recommended Practice for the Classification of Combustible Dusts and of Hazardous (Classified) Locations for Electrical Installations in Chemical Process Areas (2008)* includes a table of selected combustible materials. This is not a comprehensive list and a dust should be considered to be combustible unless it is known otherwise. For certain, substances that are combustible as particulates should be considered as combustible dusts. OSHA also publishes a list of substances for which there is a risk of combustible dust explosion, at <http://www.osha.gov/Publications/combustibledustposter.pdf>.



### **What is a dust explosion?**

A dust explosion/deflagration is essentially the very rapid combustion of a dust cloud or suspension of dust in air, during which heat and pressure is generated at a very high rate. The conditions necessary for an explosion are a sufficiently dense dust cloud of combustible dust in an enclosed area, adequate oxygen/air to support combustion, and an ignition source.

Dust explosions can be very destructive. Often there is a series of explosions in which the primary explosion/deflagration is relatively small. The pressure from the primary explosion can be intense enough to dislodge dust off walls, beams, ledges, machines, and other surfaces. This dislodged dust then mixes with air, creating a much larger dust cloud which can then be ignited and react explosively creating a secondary catastrophic explosion. This secondary explosion/deflagration can be much larger than the primary explosion.

### **Location and construction of dust collectors**

The guidance in this guideline is taken mainly from the five NFPA standards listed above in the Background section. Information provided here represents some of the control measures from the NFPA standards. In addition, *NFPA 69 Standard on Explosion Prevention Systems (2008)* provides information on preventing and controlling deflagrations.

The NFPA standards also contain specifications not directly related to location or construction of the dust collector (e.g., electrical protection, ventilation, control of ignition sources, spark detection and arrest, isolation devices, ductwork, partitioning, preventing dust accumulations on horizontal surfaces, sprinkler and other fire suppression systems, relief venting, etc.). These specifications are not directly related to *Regulation* subsection 5.71(3) but many are related to other regulatory requirements. Employers should not rely solely on the generic information in this guideline to minimize hazards leading to dust explosions. The entire relevant standard(s) should be consulted for complete information.

### **Location of a dust collector**

*Regulation* subsection 5.71(3) specifies that a dust collector used to control combustible dust be located so that no worker will be endangered in the event of an explosion inside the collector. Dust collectors used for collection of combustible dust are appropriately located outdoors – this is usually the preferred location with respect to compliance with this section of the *Regulation*. Under certain circumstances and conditions, it is acceptable to locate a dust collector indoors. The relevant B.C. Codes and NFPA standard(s) should be consulted for complete information on these circumstances and conditions, but some general guidance is provided here.

The *BC Fire Code (2006)* specifies in Division B Section 5.3 that a dust collector having a flow capacity greater than 0.5 m<sup>3</sup>/s be located outside of a building and

be equipped with explosion venting to the outdoors of not less than 0.1 m<sup>2</sup> of vent area for each cubic metre of dust collector enclosure volume.

The *BC Fire Code* allows a dust collector to be located inside a building if it is

- a) Provided with explosion venting to the outdoors
- b) Equipped with an automatic explosion venting system
- c) Located in a room with fire separations having a fire-resistance rating of not less than 1 hr and provided with explosion venting to the outdoors

The *BC Fire Code* also requires, when exhausted air is returned to the building, that the dust-collection system be designed so that the exhaust fan and ancillary equipment are automatically shut down in the event of a fire or an explosion inside the dust collector. Construction of a dust collector should also include isolation devices where ductwork returning to a building from the dust collector can provide a path for a fireball and a pressure wave to enter the building.

A number of NFPA standards also provide guidance for the location of a dust collector, and this guidance is acceptable as long as it does not contradict British Columbia code requirements such as the *BC Fire Code*. For example, *NFPA 61* Chapter 10 specifies location criteria for dust collectors used in **agriculture and food processing** facilities, including operations involving dry agricultural bulk materials and their by-products, and dusts that include grains, oilseeds, agricultural seeds, legumes, sugar, flour, spices, feeds, and other related materials. An outside location of the dust collector is required, with several exceptions listed in the standard.

*NFPA 484* describes specific dust collector location criteria for a number of **combustible metals** and has specific chapters for control of combustible dust hazards from alkali metals, aluminum, magnesium, niobium, tantalum, titanium, zirconium, and other combustible metals.

*NFPA 654* provides specifications for control of dust explosions from **materials not specifically addressed by another more specific NFPA standard**. This standard specifies that, where an explosion hazard exists, air-material separators be located outside of buildings. The standard provides some exceptions to this specification in Chapter 7.

*NFPA 655* provides general specifications for control of fires and explosions from processes involving **sulfur** dust, and includes specific location criteria for the dust collector.

*NFPA 664* provides specifications for selecting the location for a dust collector in **wood processing and woodworking facilities**. Outdoor locations are recommended. The standard recommends that dust collectors not be located on the roof of a building. Indoor locations are permitted by the standard under special circumstances, which are listed in the standard for enclosed and enclosureless dust collectors.

### **Construction of a dust collector**

Dust collectors used for combustible dust need to be designed and constructed entirely of non-combustible material suitable for the use intended (Note: the use of aluminum paint on the inside of a metal dust collector increases the fire hazard and should be avoided. If the aluminum flakes off or is struck by a foreign object, the heat of impact could be sufficient to cause ignition of the aluminum particle, thereby initiating a fire). However, filter bags and explosion vent panels fabricated from combustible material are acceptable. Dust collectors need to be constructed to prevent leakage of dust into the rest of the workplace and to minimize internal ledges or other points of dust accumulation (e.g., hopper bottoms should be sloped; surfaces and seams should be smooth). This is important since an accumulation of as little as 0.8 mm (1/32 inch) thick of combustible dust on horizontal surfaces (both inside and outside the dust collector) may lead to a secondary and more damaging explosion following any primary explosion. Dust collectors need to have independent supporting structures capable of supporting the weight of the collector, the material being collected, and any water from extinguishing systems that will not readily drain from the system.

*NFPA 61* Chapter 10 specifies criteria for construction of a dust collector used for **agricultural and food processing** operations.

*NFPA 484* describes construction criteria for dust collection in **metal operations**.

*NFPA 655* provides general specifications for control of fires and explosions from processes involving **sulfur** dust, and includes specific construction criteria.

*NFPA 664* describes location and construction criteria for **wood processing and woodworking** facilities (see especially section 8.2).

### **Explosion relief venting and suppression**

Explosion relief vents are panels or doors that are deliberate points of weakness. If they are of the correct size and construction, and properly positioned, they can help to safely vent an explosion in a dust collector so that workers are not endangered. These relief vents should be designed and constructed by experts. *NFPA 68 Standard on Explosion Protection by Deflagration Venting (2007)* addresses the design, location, installation, maintenance, and use of devices and systems that vent the combustion gases and pressures resulting from a deflagration within an enclosure. The standard specifies that deflagration venting be arranged to avoid injury from the vent discharge and that the material discharged from an enclosure during the venting of a deflagration be directed outside to a safe location.

*NFPA 654* includes information on deflagration venting, suppression systems, mechanical and chemical isolation systems, flame front diverters, and abort gates to lower the risk to workers in the event of an explosion inside a dust collector.

*G5.81 Combustible dust – Sawmill facilities*

Issue April 25, 2012

**Regulatory excerpts**

**Section 5.81 of the *OHS Regulation* ("*Regulation*")**  
**Combustible dust**

If combustible dust collects in a building or structure or on machinery or equipment, it must be safely removed before accumulation of the dust could cause a fire or explosion.

**Section 5.71 of the *Regulation***  
**Flammable air contaminants**

- (1) If an operation or work process produces a combustible or flammable air contaminant in concentrations that may present a risk of fire or explosion, the employer must provide a separate exhaust ventilation system for the operation or work process.
- (2) Electrical components of an exhaust ventilation system required by subsection (1) must comply with Class I Division I requirements of CSA Standard C22.1-94, Canadian Electrical Code, Part 1 if the components contact the air stream.
- (3) A dust collector having an internal volume greater than 0.6 m<sup>3</sup> (20 ft<sup>3</sup>) and being used to control combustible dusts must be located and constructed so that no worker will be endangered in the event of an explosion inside the collector.

**Section 115 of the *Workers Compensation Act* ("*Act*")**  
**General duties of employers**

- (1) Every employer must
  - (a) ensure the health and safety of
    - (i) all workers working for that employer, and
    - (ii) any other workers present at a workplace at which that employer's work is being carried out, and
  - (b) comply with this Part, the regulations and any applicable orders.
- (2) Without limiting subsection (1), an employer must
  - (a) remedy any workplace conditions that are hazardous to the health or safety of the employer's workers.

**Section 3.5 of the *Regulation***  
**General requirement**

Every employer must ensure that regular inspections are made of all workplaces, including buildings, structures, grounds, excavations, tools, equipment, machinery and work methods and practices, at intervals that will prevent the development of unsafe working conditions.

### Introduction

Combustible dusts are fine particles that present an explosion hazard when suspended in air under certain conditions. A dust explosion can cause catastrophic loss of life, injuries, and destruction of buildings. In many cases, employers and workers may be unaware of the potential for dust explosions, or fail to recognize the serious nature of dust explosion hazards.

This guideline provides information about the mitigation of hazards associated with combustible dusts, including the conduct of risk assessments, development of a dust control program and training of workers at workplaces. The focus of the guideline is on combustible dusts at sawmills and related facilities.

### Ventilation for flammable air contaminants

Section 5.71 of the *Regulation* provides requirements for exhaust ventilation systems and dust collection where operations or work processes present a risk of fire or explosion. Refer to G5.71(3) Location and construction of dust collectors for guidance on locating and constructing dust collectors used to control combustible dusts so that workers will not be endangered in the event of an explosion inside the collector.

### Combustible dust program

#### Hazard mitigation

Hazard mitigation strategies for combustible dust at sawmills should include the following elements discussed in more detail herein:

- Facility risk assessment
- Written combustible dust control program
- Communication of program, including training

#### Facility risk assessment

The factors that should be identified and included in assessing the potential for dust fires/explosions include the following:

- Materials that can be combustible when finely divided
- Consideration of the physical properties of dust including, moisture content, particle size and combustibility
- Processes which use, consume, or produce combustible dusts
- Open areas where combustible dusts may build up
- Hidden or enclosed areas where combustible dusts may accumulate
- Means by which dust may be dispersed in the air
- Potential ignition sources such as, hot work locations, friction points, electrical equipment, static charges, and confinement areas
- Mechanisms of dispersion of air including, discharge for saws, equipment vibration, compressed air use
- Areas with risk of secondary deflagration (adjacent dust is dispersed by initial combustion and creates conditions for rapid propagation).

#### Written combustible dust control program

The combustible dust program should be in writing and include the following elements:

- List of all combustible dust sources, locations and control equipment
- Engineering controls including,
  - Local exhaust ventilation, use of appropriate electrical equipment, grounding of material conveyance systems, and misting systems
- Housekeeping inspection schedules and procedures for preventative maintenance including inspection of
  - Equipment that may act as an ignition source (produces heat or sparks if not properly maintained)
  - Elevated horizontal surfaces such as machine tops
  - Beams, joists, purlins, ducts, pipes and cable trays
  - Vertical surfaces (walls, etc.)
  - Hidden areas
  - On the surface of, and within electrical equipment (e.g., motor control cabinets)
- Description of dust clean-up program including methods of removal such as,
  - Vacuums, compressed air, water, specialized tools
- The criteria or thresholds that have been established
  - As a guide, limit surface to accumulation of 1/16 inch or less
- Specific safe work procedures including,
  - Hot permit program, smoking control and emergency preparedness, equipment de-energized during clean-up activities
- Third party inspections (e.g., insurance inspections and findings)

### **Communication of program, including training**

The training of workers must include making workers aware of all known or reasonably foreseeable hazards to which they are likely to be exposed, and making workers aware of their rights and responsibilities under the *WCA* and the *Regulation*. The dust control program should be communicated to all workers and include training on the program elements, including hazard awareness, specific safe work procedures, hazcom documentation and emergency preparedness.

### **Further resources**

*NFPA 664 Standard for the Prevention of Fires and Explosions in Wood Processing and Woodworking Facilities (2007)*

<http://www.nfpa.org/>

OSHA - Combustible Dust National Emphasis Program

[http://www.osha.gov/pls/oshaweb/owadisp.show\\_document?p\\_table=directives&p\\_id=3830](http://www.osha.gov/pls/oshaweb/owadisp.show_document?p_table=directives&p_id=3830)

Combustible Dust: An Insidious Hazard (video)

[http://www.csb.gov/videoroom/detail.aspx?vid=30&F=0&CID=1&pg=1&F\\_All=y](http://www.csb.gov/videoroom/detail.aspx?vid=30&F=0&CID=1&pg=1&F_All=y)



WORKING TO MAKE A DIFFERENCE

### **WorkSafeBC Directive Order to Sawmill Employers**

**In the past 3 months explosions and fires at two sawmills in British Columbia have resulted in fatalities and serious injuries to workers.**

**This employer is ordered to, without undue delay, at its sawmill and any related facility:**

- **undertake a comprehensive risk assessment with respect to hazards created by combustible dusts, which assessment must include a thorough inspection of the employer's facility, and**
- **develop and implement an effective combustible dust control program based on the risk assessment.**

**A WorkSafeBC prevention officer will be conducting a follow-up inspection on site no later than May 9, 2012, to evaluate the employer's actions taken immediately to fully comply with the order in the Inspection Report.**

**Failure to comply with this order without undue delay will result in further action, including possible sanctions and stop work orders. A WorkSafeBC officer will follow up on this order to evaluate compliance.**

The employer's attention is drawn to the following requirements in the Occupational Health and Safety Regulation:

#### **5.71 Flammable air contaminants**

(1) If an operation or work process produces a combustible or flammable air contaminant in concentrations that may present a risk of fire or explosion, the employer must provide a separate exhaust ventilation system for the operation or work process.

#### **5.81 Combustible dust**

If combustible dust collects in a building or structure or on machinery or equipment, it must be safely removed before accumulation of the dust could cause a fire or explosion.

#### **3.5 General requirement**

Every employer must ensure that regular inspections are made of all workplaces, including buildings, structures, grounds, excavations, tools, equipment, machinery and work methods and practices, at intervals that will prevent the development of unsafe working conditions.

A copy of OHS Guidelines G5.81 and G5.71 have been provided to this employer under separate cover.



Dick, Joan L LCTZ:EX

---

**From:** Dick, Joan L LCTZ:EX  
**Sent:** Thursday, April 26, 2012 3:59 PM  
**To:** Southern, Evan FLNR:EX; Strongitharm, Bruce FLNR:EX  
**Subject:** FW: WorkSafeBC sawmill directive & guidelines  
**Attachments:** G5 71 (2).doc; G5 81 Combustible dust - sawmill facilities - Final - 25-Apr-12 (3).doc; SawmillDirective.pdf

FYI, J.

---

**From:** Johnston, Megan [<mailto:Megan.Johnston@worksafebc.com>]  
**Sent:** Thursday, April 26, 2012 3:51 PM  
**To:** Dick, Joan L LCTZ:EX  
**Cc:** Freeman, Donna WCB:EX  
**Subject:** WorkSafeBC sawmill directive & guidelines

Please find directive and guidelines attached.

**Megan Johnston**  
Communications Officer, Media Relations  
WorkSafeBC  
t 604.214.6934

*Follow WorkSafeBC Media Relations on Twitter*

Watch WorkSafeBC's live Day of Mourning webcast on Friday, April 27 at 10:30 a.m., and be a part of the tribute to workers who have lost their lives to workplace injury and disease: [www.worksafebc.com](http://www.worksafebc.com)

#### CONFIDENTIALITY DISCLAIMER

The information contained in this transmission may contain privileged and confidential information of WorkSafeBC - the Workers' Compensation Board. It is intended for review only by the person(s) named above. Dissemination, distribution or duplication of this communication is strictly prohibited by all recipients unless expressly authorized otherwise. If you are not the intended recipient, please contact the sender by reply email and destroy all copies of the original message. Thank you.

Dick, Joan L LCTZ:EX

---

**From:** Dick, Joan L LCTZ:EX  
**Sent:** Thursday, April 26, 2012 4:17 PM  
**To:** Plant, Graham LCTZ:EX  
**Subject:** Fw: WorkSafeBC sawmill directive & guidelines  
**Attachments:** G5 71 (2).doc; G5 81 Combustible dust - sawmill facilities - Final - 25-Apr-12 (3).doc; SawmillDirective.pdf

FYI, J.

---

**From:** Dick, Joan L LCTZ:EX  
**Sent:** Thursday, April 26, 2012 03:58 PM  
**To:** Southern, Evan FLNR:EX; Strongitharm, Bruce FLNR:EX  
**Subject:** FW: WorkSafeBC sawmill directive & guidelines

FYI, J.

---

**From:** Johnston, Megan [<mailto:Megan.Johnston@worksafebc.com>]  
**Sent:** Thursday, April 26, 2012 3:51 PM  
**To:** Dick, Joan L LCTZ:EX  
**Cc:** Freeman, Donna WCB:EX  
**Subject:** WorkSafeBC sawmill directive & guidelines

Please find directive and guidelines attached.

**Megan Johnston**  
Communications Officer, Media Relations  
WorkSafeBC  
t 604.214.6934

*Follow WorkSafeBC Media Relations on [Twitter](#)*

Watch WorkSafeBC's live Day of Mourning webcast on Friday, April 27 at 10:30 a.m., and be a part of the tribute to workers who have lost their lives to workplace injury and disease: [www.worksafebc.com](http://www.worksafebc.com)

CONFIDENTIALITY DISCLAIMER

The information contained in this transmission may contain privileged and confidential information of WorkSafeBC - the Workers' Compensation Board. It is intended for review only by the person(s) named above. Dissemination, distribution or duplication of this communication is strictly prohibited by all recipients unless expressly authorized otherwise. If you are not the intended recipient, please contact the sender by reply email and destroy all copies of the original message. Thank you.

Dick, Joan L LCTZ:EX

---

From: Dick, Joan L LCTZ:EX  
Sent: Thursday, April 26, 2012 4:40 PM  
To: MacDiarmid, Margaret LCTZ:EX  
Subject: FW: cbc request - clarification

Messaging reviewed by WSBC and their legal folk:

s13

Also, the Fire Code is enforced by fire commissioner and/or fire departments.

Reporter also asked;

Is there a gap here between worksafe and the fire commissioner/fire inspectors in terms of who's responsible and who has the knowledge to identify the risks of explosive dust?

WSBC provided the following answer:

Essentially we will be meeting with industry to discuss further the potential of developing a safe level

not responsive

not responsive

Dick, Joan L LCTZ:EX

---

From: Dick, Joan L LCTZ:EX  
Sent: Thursday, April 26, 2012 7:04 PM  
To: MacDiarmid, Margaret LCTZ:EX  
Cc: Plant, Graham LCTZ:EX  
Subject: FW: Vobc

Minister:  
Comments from MSB to Vaughn.  
J

-----Original Message-----

From: Coburn, Lindsay JAG:EX  
Sent: Thursday, April 26, 2012 6:06 PM  
To: Groot, Jeff GCPE:EX; Adair, Marisa GCPE:EX; Schollen, Tasha GCPE:EX; Heiman, Carolyn GCPE:EX; Kerr, Carleen JAG:EX; Wolford, Jessica JAG:EX; Ritchie, Dave JAG:EX; Dick, Joan L LCTZ:EX  
Subject: Vobc

PG

V: tragedy in pg. Been there yet?

Msb: w pcc. Constant contact w pg. Injuries difficult to see. Proud of emergency responders. Long recovery ahead.

V: second mill explosion this year. Tough for workers to go to work. Doing enough to take safety precautions?

Msb: worksafe taking aggressive approach. Mmmcd asked them to look at safety in all mills. Encourage people to allow experts to do work, but it's frightening. Info worksafe has to date needs to be released asap. Will never be soon enough. Want it to be thorough and don't want to speculate.

Dick, Joan L LCTZ:EX

---

**From:** Dick, Joan L LCTZ:EX  
**Sent:** Monday, April 30, 2012 12:56 PM  
**To:** Greer, David GCPE:EX  
**Subject:** Qp & media. Additional messaging

David:

s13

J.

Minister:

s13



Dick, Joan L LCTZ:EX

---

**From:** Greer, David GCPE:EX  
**Sent:** Wednesday, April 4, 2012 9:49 PM  
**To:** Dick, Joan L LCTZ:EX; Plant, Graham LCTZ:EX  
**Subject:** Fw: Burns Lake Situation Report and Key Messages - April 4th  
**Attachments:** KM\_JTI\_BURNS LAKE\_April42012.docx; Burns Lake Recovery Sit Report April 4 final.docx


---

**From:** Fraser, Sarah W JTI:EX  
**Sent:** Wednesday, April 04, 2012 09:39 PM  
**To:** Dyble, John C PREM:EX; Hayden, Dana JTI:EX; Milburn, Peter R FIN:EX; Sieben, Mark MSD:EX; MacDougall, Michael EHSC:EX; Mentzelopoulos, Athana GCPE:EX; Sweeney, Neil PREM:EX; Denlinger, Becky JAG:EX; Mills, Shane PREM:EX  
**Cc:** Greer, David GCPE:EX; Crebo, David GCPE:EX; Sitter, Donna GCPE:EX; McCaffrey, Julianne GCPE:EX; Schollen, Tasha GCPE:EX; DeLuca, Lori GCPE:EX; Adair, Marisa GCPE:EX; Gleeson, Kelly T GCPE:EX; Wilkie, Maria GCPE:EX; Bates Gibbs, Bonnie GCPE:EX; Paulson, Aleesa JTI:EX; Fraser, Sarah W JTI:EX; Clark, Bob JTI:EX; Carroll, Sandra JTI:EX; Stewart, Michelle GCPE:EX; Gordon, Matt GCPE:EX; Mader, Susan GCPE:EX; Lansdell, Hayden GCPE:EX  
**Subject:** Burns Lake Situation Report and Key Messages - April 4th

Please find the Cross-Ministry Burns Lake Situation Report and Key Messaging for April 4th attached. These reports will be sent to you once a week all new information is in bold text.

<<KM\_JTI\_BURNS LAKE\_April42012.docx>> <<Burns Lake Recovery Sit Report April 4 final.docx>>

Sarah Fraser, MBA | Executive Director | Regional Economic Operations | Ministry of Jobs, Tourism and Innovation | 250 952-0644

 Please consider the environment before printing this e-mail

MINISTRY OF JOBS, TOURISM AND INNOVATION  
**SITUATION REPORT**

Cliff #: 476284

Date: April 4, 2012

**PREPARED FOR: John Dyble, Deputy Minister to the Premier  
FOR INFORMATION**

*Updated information from the March 28<sup>th</sup>, 2012 Situation Report has been **Bolded**.*

**Event Name: Burns Lake (Babine Forest Products) Mill Explosion and Fire**

**EVENT CONTEXT:**

On Friday, January 20, 2012, a fire occurred near Burns Lake, BC, at Babine Forest Products. The explosion and fire resulted in the loss of two lives and injured 19 others. The event resulted in the complete loss of the sawmill. However, some facilities including the planer mill and drying kilns are reportedly intact. The event was an industrial accident with the potential for insurable losses (which have not yet been determined).

The mill is located on First Nations' land and is the largest employer in the area employing 252 full time employees and 17 part-time employees. Ownership of the facility is shared between Hampton Affiliates from Portland Oregon (~90%) and the Burns Lake Native Development Corporation (~10%).

**ON-SITE AND COMMUNITY SITUATION:**

- The RCMP has been working with engineers and WorkSafe BC to ensure the site is rendered safe.
- The RCMP transitioned site maintenance and security to WorkSafe BC on January 26<sup>th</sup>.
- A small fire occurred at the Deker mill near Burns Lake on March 6. The source was a heater in the roof, in which the fan stopped working, but the motor continued to run and caught fire. The fire was contained by mill employees, and while 1 was treated for smoke inhalation, there were no further injuries reported and the mill resumed operation.

not responsive

not responsive

s12

Pages 148 through 149 redacted for the following reasons:

-----

not responsive

not responsive

**RESPONSE:**

**Patient Care:**

- 1 patient at GF Strong Rehabilitation Center; continues to improve and is stable.
- This patient's team is working on identifying rehab goals and an anticipated discharge target date at a team meeting later this week; we will have this information for next week's update.

not responsive

Pages 151 through 152 redacted for the following reasons:

-----

not responsive

Date: April 4, 2012

## **Burns Lake (Babine Forest Products) Mill Explosion & Fire OVERARCHING MESSAGING – HIGH LEVEL**

not responsive

not responsive



Dick, Joan L LCTZ:EX

---

**From:** McCloy, Scott [Scott.McCloy@worksafebc.com]  
**Sent:** Wednesday, April 18, 2012 9:58 AM  
**To:** Dick, Joan L LCTZ:EX  
**Subject:** Burns Lake Investigation Update Apr.'12  
**Attachments:** Burns Lake Investigation Update Apr.'12.docx

Joan: Further to my email yesterday, here is the news release that has gone out for your background information. Scott

Be a part of the Day of Mourning tribute to workers who have lost their lives to workplace injury and disease. Visit the Day of Mourning web pages for more information on ceremonies taking place around B.C.: [http://www.worksafebc.com/news\\_room/campaigns/day\\_of\\_mourning/default.asp](http://www.worksafebc.com/news_room/campaigns/day_of_mourning/default.asp)

#### CONFIDENTIALITY DISCLAIMER

The information contained in this transmission may contain privileged and confidential information of WorkSafeBC - the Workers' Compensation Board. It is intended for review only by the person(s) named above. Dissemination, distribution or duplication of this communication is strictly prohibited by all recipients unless expressly authorized otherwise. If you are not the intended recipient, please contact the sender by reply email and destroy all copies of the original message. Thank you.

Dick, Joan L LCTZ:EX

---

From: MacDiarmid, Margaret LCTZ:EX  
Sent: Wednesday, April 18, 2012 10:49 AM  
To: Dick, Joan L LCTZ:EX  
Subject: Re: Burns Lake Investigation Update Apr.'12

s13

Please make sure that MPB and MLA Rustad have this ASAP.

Thank you,  
Margaret

Sent from my iPad

On 2012-04-18, at 10:37 AM, "Dick, Joan L LCTZ:EX" <[Joan.Dick@gov.bc.ca](mailto:Joan.Dick@gov.bc.ca)> wrote:

> Minister:

>

s13

provided on background.

> J.

>

>

> <Burns Lake Investigation Update Apr.'12.docx>

This went out this morning and has now been

Dick, Joan L LCTZ:EX

---

**From:** Greer, David GCPE:EX  
**Sent:** Thursday, April 19, 2012 8:33 AM  
**To:** Dick, Joan L LCTZ:EX; Plant, Graham LCTZ:EX; Henderson, Kim N LCTZ:EX; Walman, Barbara J. LBR:EX  
**Cc:** Macnaughton, Jason GCPE:EX  
**Subject:** FW: Burns Lake Situation Report and Key Messages - April 18th

---

**From:** Fraser, Sarah W JTI:EX  
**Sent:** Wednesday, April 18, 2012 8:45 PM  
**To:** Dyble, John C PREM:EX; Hayden, Dana JTI:EX; Milburn, Peter R FIN:EX; Sieben, Mark MSD:EX; MacDougall, Michael EHSC:EX; Mentzelopoulos, Athana GCPE:EX; Sweeney, Neil PREM:EX; Denlinger, Becky JAG:EX; Mills, Shane PREM:EX  
**Cc:** Greer, David GCPE:EX; Crebo, David GCPE:EX; Sitter, Donna GCPE:EX; McCaffrey, Julianne GCPE:EX; Schollen, Tasha GCPE:EX; DeLuca, Lori GCPE:EX; Adair, Marisa GCPE:EX; Gleeson, Kelly T GCPE:EX; Wilkie, Maria GCPE:EX; Bates Gibbs, Bonnie GCPE:EX; Paulson, Aleesa JTI:EX; Fraser, Sarah W JTI:EX; Clark, Bob JTI:EX; Carroll, Sandra JTI:EX; Stewart, Michelle GCPE:EX; Gordon, Matt GCPE:EX; Mader, Susan GCPE:EX; Lansdell, Hayden GCPE:EX; Henderson, Lori JTI:EX  
**Subject:** Burns Lake Situation Report and Key Messages - April 18th

Please find the Cross-Ministry Burns Lake Situation Report and Key Messaging for April 18th attached. These reports will be sent to you once a week, all new information is in bold text.



Burns Lake      KM\_JTI\_BURNS  
ecovery Sit ReportAKE\_April182012 .

Sarah Fraser, MBA    Executive Director    Regional Economic Operations    Ministry of Jobs, Tourism and Innovation    250 952-0644



Please consider the environment before printing this e-mail

MINISTRY OF JOBS, TOURISM AND INNOVATION  
**SITUATION REPORT**

Cliff #: 476284

Date: April 18, 2012

**PREPARED FOR: John Dyble, Deputy Minister to the Premier  
FOR INFORMATION**

*Updated information from the April 11<sup>th</sup>, 2012 Situation Report has been **Bolded**.*

**Event Name: Burns Lake (Babine Forest Products) Mill Explosion and Fire**

**EVENT CONTEXT:**

On Friday, January 20, 2012, a fire occurred near Burns Lake, BC, at Babine Forest Products. The explosion and fire resulted in the loss of two lives and injured 19 others. The event resulted in the complete loss of the sawmill. However, some facilities including the planer mill and drying kilns are reportedly intact. The event was an industrial accident with the potential for insurable losses (which have not yet been determined).

The mill is located on First Nations' land and is the largest employer in the area employing 252 full time employees and 17 part-time employees. Ownership of the facility is shared between Hampton Affiliates from Portland Oregon (~90%) and the Burns Lake Native Development Corporation (~10%).

**ON-SITE AND COMMUNITY SITUATION:**

- The RCMP has been working with engineers and WorkSafe BC to ensure the site is rendered safe.
- The RCMP transitioned site maintenance and security to WorkSafe BC on January 26<sup>th</sup>. **Worksafe BC has announced it is releasing the mill site back to Babine Forest Products on April 19<sup>th</sup>. While over 80 witness interviews have been conducted to date, the next phase of the investigation is expected to take several months to conclude.**
- **Worksafe BC is organizing a Day of Mourning ceremony in Burns Lake on Saturday, April 28<sup>th</sup>.**
- A small fire occurred at the Deker mill near Burns Lake on March 6. The source was a heater in the roof, in which the fan stopped working, but the motor continued to run and caught fire. The fire was contained by mill employees, and while 1 was treated for smoke inhalation, there were no further injuries reported and the mill resumed operation.

Pages 159 through 162 redacted for the following reasons:

-----

not responsive

not responsive

**RESPONSE:**

**Patient Care:**

- Client is doing well in rehab at GF Strong Rehabilitation facility, medically stable. Continuing to work on functional goals and on track for discharge home in June. (Planned/ target discharge date is June 5<sup>th</sup>)
- Once home, patient may require community nursing support for wound management, and potentially with some of his activities of daily living, and GF Strong will follow up with NHA closer to discharge date to organize these supports as required.

not responsive

Pages 164 through 165 redacted for the following reasons:

-----

not responsive

Date: April 18, 2012

## **Burns Lake (Babine Forest Products) Mill Explosion & Fire OVERARCHING MESSAGING – HIGH LEVEL**

not responsive

- Worksafe BC has announced it is releasing the mill site back to Babine Forest Products on April 19th. While over 80 witness interviews have been conducted to date, the next phase of the investigation is expected to take several months to conclude.

not responsive



Pages 167 through 168 redacted for the following reasons:

-----

not responsive

**Dick, Joan L LCTZ:EX**

---

**From:** Greer, David GCPE:EX  
**Sent:** Monday, April 23, 2012 11:03 PM  
**To:** MacDiarmid, Margaret LCTZ:EX; Dick, Joan L LCTZ:EX; Henderson, Kim N LCTZ:EX; Plant, Graham LCTZ:EX; Walman, Barbara J. LBR:EX  
**Cc:** Macnaughton, Jason GCPE:EX  
**Subject:** Mill Explosion PG  
**Importance:** High

A huge explosion has rocked the Lakeland Mills in #PrinceGeorge - we have a crew on the way. More to come....#CTVBC1130

David Greer  
Communications Director  
Ministry of Labour Citizens' Services and Open Government  
250 208-4350

Dick, Joan L LCTZ:EX

---

From: Greer, David GCPE:EX  
Sent: Monday, April 23, 2012 11:13 PM  
To: MacDiarmid, Margaret LCTZ:EX; Dick, Joan L LCTZ:EX; Plant, Graham LCTZ:EX; Henderson, Kim N LCTZ:EX; Walman, Barbara J. LBR:EX  
Subject: FW: Urgent mill explosion pg

More info here

----- Original Message -----

From: Schollen, Tasha GCPE:EX  
Sent: Monday, April 23, 2012 11:09 PM  
To: Ritchie, Dave JAG:EX; Coburn, Lindsay JAG:EX; Wolford, Jessica JAG:EX; Kerr, Carleen JAG:EX  
Cc: McCaffrey, Julianne GCPE:EX; Adair, Marisa GCPE:EX; Bates Gibbs, Bonnie GCPE:EX; Sitter, Donna GCPE:EX  
Subject: Fw: Urgent mill explosion pg

Latest

----- Original Message -----

From: Stewart, Michelle GCPE:EX  
Sent: Monday, April 23, 2012 11:07 PM  
To: Stewart, Michelle GCPE:EX; hlth Executive Committee; Smith, Chris HLTH:EX; Collins, Teri HLTH:EX; Wright, Jenn HLTH:EX; Maksymetz, Richard HLTH:EX; Miniaci, Mario HLTH:EX  
Cc: Jabs, Ryan GCPE:EX; Porter, Rodney GCPE:EX; May, Stephen GCPE:EX; Mentzelopoulos, Athana GCPE:EX; Adair, Marisa GCPE:EX; Schollen, Tasha GCPE:EX; 'Julianne@McCaffreyMedia.com' <Julianne@McCaffreyMedia.com>; Southern, Evan FLNR:EX; Crebo, David GCPE:EX  
Subject: RE: Urgent mill explosion pg

FYI From Vancouver Sun breaking news on web site

There has been an explosion and fire at Lakeland Mills sawmill in Prince George late tonight.

Reports indicate that the mill is burning to the ground.

There have been reports of injuries.

Read more: <http://www.vancouver.sun.com/Huge+explosion+Lakeland+Mills+sawmill+Prince+George/6506952/story.html#ixzz1sw3Ij498>

---

From: Stewart, Michelle GCPE:EX

Sent: Monday, April 23, 2012 10:53 PM

To: Stewart, Michelle GCPE:EX; hlth Executive Committee; Smith, Chris HLTH:EX; Collins, Teri HLTH:EX; Wright, Jenn HLTH:EX; Maksymetz, Richard HLTH:EX; Miniaci, Mario HLTH:EX  
Cc: Jabs, Ryan GCPE:EX; Porter, Rodney GCPE:EX; May, Stephen GCPE:EX; Mentzelopoulos, Athana GCPE:EX; Adair, Marisa GCPE:EX; Schollen, Tasha GCPE:EX; 'Julianne@McCaffreyMedia.com'; Southern, Evan FLNR:EX; Crebo, David GCPE:EX  
Subject: RE: Urgent mill explosion pg

please note patient total so far has risen to 16 - updated below

From: Stewart, Michelle GCPE:EX

Sent: Monday, April 23, 2012 10:52 PM

To: Stewart, Michelle GCPE:EX; hlth Executive Committee; Smith, Chris HLTH:EX; Collins, Teri HLTH:EX; Wright, Jenn HLTH:EX; Maksymetz, Richard HLTH:EX; Miniaci, Mario HLTH:EX  
Cc: Jabs, Ryan GCPE:EX; Porter, Rodney GCPE:EX; May, Stephen GCPE:EX; Mentzelopoulos, Athana GCPE:EX; Adair, Marisa GCPE:EX; Schollen, Tasha GCPE:EX; 'Julianne@McCaffreyMedia.com'; Southern, Evan FLNR:EX; Crebo, David GCPE:EX  
Subject: RE: Urgent mill explosion pg

#### DRAFT KEY MESSAGES

We have been advised of an explosion and fire at Lakeland Mills in Prince George that occurred at approximately 9:40 this evening.

Emergency responders are working closely with Northern Health - and we are aware BC Ambulance has transported 16 patients to hospital so far and more are expected.

We can't speak to the condition of the victims but at this time there is no indication of fatalities.

Northern Health has called a code orange - which is standard practice when there is an incident of this nature.

Again this information is preliminary and our hearts go out to the victims of this tragedy.

---

From: Stewart, Michelle GCPE:EX

Sent: Monday, April 23, 2012 10:37 PM

To: Stewart, Michelle GCPE:EX; hlth Executive Committee; Smith, Chris HLTH:EX; Collins, Teri HLTH:EX; Wright, Jenn HLTH:EX; Maksymetz, Richard HLTH:EX; Miniaci, Mario HLTH:EX  
Cc: Jabs, Ryan GCPE:EX; Porter, Rodney GCPE:EX; May, Stephen GCPE:EX; Mentzelopoulos, Athana GCPE:EX; Adair, Marisa GCPE:EX; Schollen, Tasha GCPE:EX; 'Julianne@McCaffreyMedia.com'  
Subject: RE: Urgent mill explosion pg

Of note from opinion 250 web site

Monday, February 06, 2012 01:26 PM

Prince George, BC - Prince George Fire Rescue was called to Lakeland Mills in the CNR Industrial site for a fire that is being described as 'relatively minor in nature'.

Deputy Fire Chief John Iverson says three halls responded with five vehicles when the call came in at about 8am yesterday morning. Iverson says a small blaze apparently broke out in the last stage of the sawdust collection system.

Lakeland Mills has its own fire protection crews on-site. Iverson says given the nature of the operation and all the sawdust involved, PG Fire Rescue assisted to ensure the incident remained contained and all the hotspots were fully extinguished.

He says one crew worked the scene, while the second hall remained at the mill on stand-by, and the third was eventually released. Fire fighters were at the mill for approximately six-hours.

There are no officials at Lakeland Mills available to comment at this time. However, the mill is fully operational today.

---

From: Stewart, Michelle GCPE:EX

Sent: Monday, April 23, 2012 10:35 PM

To: hlth Executive Committee; Smith, Chris HLTH:EX; Collins, Teri HLTH:EX; Wright, Jenn HLTH:EX; Maksymetz, Richard HLTH:EX; Miniaci, Mario HLTH:EX

Cc: Jabs, Ryan GCPE:EX; Porter, Rodney GCPE:EX; May, Stephen GCPE:EX; Mentzelopoulos, Athana GCPE:EX; Adair, Marisa GCPE:EX; Schollen, Tasha GCPE:EX; 'Julianne@McCaffreyMedia.com'

Subject: Re: Urgent mill explosion pg

From website lakeland mills is a sawmill on river road employing approximately 170 people at CNR industrial site - note it was the site of a fire on feb 6th

----- Original Message -----

From: Stewart, Michelle GCPE:EX

Sent: Monday, April 23, 2012 10:27 PM

To: hlth Executive Committee; Smith, Chris HLTH:EX; Collins, Teri HLTH:EX; Wright, Jenn HLTH:EX; Maksymetz, Richard HLTH:EX; Miniaci, Mario HLTH:EX

Cc: Jabs, Ryan GCPE:EX; Porter, Rodney GCPE:EX; May, Stephen GCPE:EX; Mehtzelopoulos, Athana GCPE:EX; Adair, Marisa GCPE:EX; Schollen, Tasha GCPE:EX

Subject: Urgent mill explosion pg

Northern health advises they have had a mill explosion in pg - ( Lakeland ??). - code orange called - potentially 17 people on shift - explosion rocked buildings in downtown - no word on fatalities - more info as available...

Dick, Joan L LCTZ:EX

---

**From:** Greer, David GCPE:EX  
**Sent:** Tuesday, April 24, 2012 7:12 AM  
**To:** Dick, Joan L LCTZ:EX; MacDiarmid, Margaret LCTZ:EX; Henderson, Kim N LCTZ:EX; Walman, Barbara J. LBR:EX; Plant, Graham LCTZ:EX  
**Cc:** Macnaughton, Jason GCPE:EX  
**Subject:** Fw: Media Release - Explosion at Lakeland Mills Sawmill  
**Attachments:** 12-10382 Sawmill Explosion 120424.pdf

---

**From:** Schollen, Tasha GCPE:EX  
**Sent:** Tuesday, April 24, 2012 07:08 AM  
**To:** Crebo, David GCPE:EX; Greer, David GCPE:EX  
**Subject:** FW: Media Release - Explosion at Lakeland Mills Sawmill

---

**From:** Sitter, Donna GCPE:EX  
**Sent:** Tue, April 24, 2012 7:07 AM  
**To:** Adair, Marisa GCPE:EX; Stewart, Michelle GCPE:EX; Schollen, Tasha GCPE:EX; Haltner, Christine GCPE:EX; McCaffrey, Julianne GCPE:EX  
**Subject:** Fw: Media Release - Explosion at Lakeland Mills Sawmill

This came in overnight - all workers accounted for.

---

**From:** PG RCMP Media Liaison PG RCMP Media Liaison [[mailto:pg\\_media@rcmp-grc.gc.ca](mailto:pg_media@rcmp-grc.gc.ca)]  
**Sent:** Tuesday, April 24, 2012 01:55 AM  
**To:** [bccmp.Admin.EDIV\\_EHQ@rcmp-grc.gc.ca](mailto:bccmp.Admin.EDIV_EHQ@rcmp-grc.gc.ca) <[bccmp.Admin.EDIV\\_EHQ@rcmp-grc.gc.ca](mailto:bccmp.Admin.EDIV_EHQ@rcmp-grc.gc.ca)>  
**Subject:** Media Release - Explosion at Lakeland Mills Sawmill

File Number: 2012-10382

not responsive

Dick, Joan L LCTZ:EX

---

From: Greer, David GCPE:EX  
Sent: Tuesday, April 24, 2012 8:08 AM  
To: Henderson, Kim N LCTZ:EX; Walman, Barbara J. LBR:EX; Dick, Joan L LCTZ:EX; Plant, Graham LCTZ:EX; Macnaughton, Jason GCPE:EX; MacDiarmid, Margaret LCTZ:EX  
Subject: Fw: Update: global/mill fire  
Importance: High

Fyi one fatality

----- Original Message -----

From: Stewart, Michelle GCPE:EX  
Sent: Tuesday, April 24, 2012 07:57 AM  
To: Adair, Marisa GCPE:EX; GCPE Comm Directors  
Subject: RE: Update: global/mill fire

From: Raper, Steve [Steve.Raper@northernhealth.ca]  
Sent: Tuesday, April 24, 2012 7:55 AM  
To: Stewart, Michelle GCPE:EX; Harbord, Chris EHSC:EX; Carwithen, Kelsie EHSC:EX  
Cc: Jabs, Ryan GCPE:EX; Anderson, Kristy GCPE:EX; May, Stephen GCPE:EX; Porter, Rodney GCPE:EX; [PHSA]Sauer, Darwin; XT:Kennedy, Theresa HLTH:IN  
Subject: RE: Urgent mill explosion pg

New details as of 5 minutes ago.

\*\*\* We received/treated 24 patients  
\*\*\* We transferred 4 --- 2 to VGH, 1 to Jubilee, 1 to Edmonton (still holding)  
\*\*\* We discharged/released 13 of the 24  
\*\*\* We have 6 in serious condition at UHNBC  
\*\*\* We can confirm one fatality (not 1 of the 4 transfers though)

---

From: Adair, Marisa GCPE:EX  
Sent: Tuesday, April 24, 2012 7:54 AM  
To: GCPE Comm Directors  
Subject: Update: global/mill fire



Hi all, Minister Bond will be on Global Morning news at 8 05 this morning.

M

Dick, Joan L LCTZ:EX

---

**From:** Greer, David GCPE:EX  
**Sent:** Tuesday, April 24, 2012 10:31 AM  
**To:** MacDiarmid, Margaret LCTZ:EX; Dick, Joan L LCTZ:EX; Plant, Graham LCTZ:EX  
**Cc:** Macnaughton, Jason GCPE:EX  
**Subject:** FW: WITH IMPORTANT CORRECTION - rolling comms document - PG Mill - 10:30 AM

---

**From:** Adair, Marisa GCPE:EX  
**Sent:** Tuesday, April 24, 2012 10:29 AM  
**To:** GCPE Comm Directors; GCPE Comm Managers  
**Cc:** Watson, Andy GCPE:EX; Karn, David GCPE:EX; Murry, Karen GCPE:EX; Watson, Andy GCPE:EX  
**Subject:** WITH IMPORTANT CORRECTION - rolling comms document - PG Mill - 10:30 AM

FYI – adding the one fatality. You will have another updated document at about 11:30 / 11:45 a.m. Thanks, M



EMBC - PG Mill  
Fire - Rolling ...

AGENCY	DETAILS	CONTACT
RCMP	Lead agency. Responding to site security, will perform cause investigation once site is safe.	Donna Sitter
MoH	Engaged through Northern Health & BCAS.	Michelle Stewart
EMBC	Not directly engaged, monitoring. Support offered, but none requested.	Julianne McCaffrey
JAG	Lead Minister. Responding to media.	Tasha Schollen
BCCS	Regional Coroner deployed, investigating.	Barb McLintock
OFC	Not directly engaged, monitoring. Support offered, but none requested.	Julianne McCaffrey
FLNRO	Unknown involvement.	Dave Crebo
WorkSafe	Regulatory Requirement: engaged.	Jeffrey Dolan
BC Safety	Not directly engaged, monitoring.	Paul Wooley
JTI	Not directly engaged, monitoring.	Hayden Lansdell

## INTER-MINISTRY INTEL

### BACKGROUND:

- On April 23, 2012 at approximately 9:38 PM the Prince George Fire Department were called to a report of an explosion at the Lakeland Sawmills located on River Road in Prince George
- Emergency crews, BC Ambulance and Prince George RCMP attended the scene to find the Sawmill engulfed in flames.
- Emergency Crews were advised that there were approximately 50 employees on site at the time of the explosion: 25 employees working in the planer mill were uninjured as the explosion had occurred in the filing area of the mill. The remaining 25 employees have been accounted for.
- Prince George Fire Chief John Lane advised that the fire was too dangerous to maintain and therefore crews were letting the fire burn out (upwards of 24 hours expected).
- Lakeland Sawmill is located in an industrial area of Prince George near the CN Railway yard which was not affected by the fire. No other homes or businesses reported damage, no evacuations resulted.

**IMPACTS:**

- One deceased, several critically injured with serious burns.
- Four patients are being transferred by air ambulance from UHNBC, 2 patients have been transferred to Vancouver General, 1 to Edmonton, 1 to Royal Jubilee. Six remain at UHNBC in serious condition, 13 patients have been treated and released.
- The Fire Chief is on site and the fire appears to be contained.
- The Medical Health Officer has been notified.
- WorkSafe BC has been engaged.
- No evacuations have occurred or are expected.
- The situation on site is reportedly stabilizing.

**RCMP REPORT:**

- 9:38 received calls re: explosion. Fire department responded with RCMP.
- 50 working in the mill at the time; 25 in the planer mill were all accounted for – no explosion in that part. But in the saw mill there were also 25 working. 13 uninjured, 7 injured – some with severe burns. There are still 5 workers unaccounted for.
- Police dog team is on hand searching for individuals.
- Fire is contained. They don't expect it to spread. Plan is to let it burn itself out – at least 24 hours.
- RCMP will interview workers and begin sit investigation once safe to do so.
- No evacuations needed – mill is between 1<sup>st</sup> ave and River Road. CN yard there – industrial area – no residences there of concern.
- There are some other businesses nearby but their main problem will be access.
- Injured folks taken to University Hospital.

**BCCS REPORT:**

- One deceased, patient was taken to University Hospital of Northern BC, but died there about 5:30 am on April 24.
- The worker's identity will not be released until it is confirmed that all next of kin have been notified.
- The Coroners Service has launched an investigation into the death, which will be undertaken in conjunction with the RCMP, the City of Prince George Fire Service, and WorkSafe BC.

#### **MOH REPORT:**

- Initial reports suggested that up to 5 persons were missing. This morning it has been confirmed that all workers have been accounted for.
- Northern Health received and treated a total of 24 patients – including a number with serious burns. 4 patients transferred by air ambulance from UHNBC.
- One of the patients succumbed to his injuries .
  - 2 patients have been transferred to Vancouver, 1 to Edmonton, 1 to Royal Jubilee.
  - 6 remain at UHNBC in serious condition.
  - 13 patients have been treated and released.
- Northern Health called a code orange at approximately 10 pm- which is standard practice when there is an incident of this nature - which was lifted at approximately 130 in the morning.

#### **BC SAFETY REPORT:**

- Monitoring, but have not been notified from any authorities yet. They are currently checking to see if they have any permits that may be associated with the location.

## **JAG KEY MESSAGES**

---

- My heart goes out to the family and friends of those impacted by this unfortunate event. Our first concern is for employees and their families and we are deeply saddened to hear of a fatality.
- I applaud the incredible response from emergency crews last night and extend a thank you to the men and women who helped last night.

#### **DETAILED KM**

- At approximately 9:40 last night, an explosion and fire occurred at Lakeland Mills - a large sawmill and planer in Prince George at the CNR Industrial site.
- We are told there were approximately 50 employees in the mill at the time of the incident. Approximately half of those were working in the sawmill where it's believed the explosion occurred - while the other half were in the planer.
- I am relieved to hear that all workers at the Lakeland Sawmill have been accounted for.
- Injuries I'm told, range from minor to severe burns.

- Emergency responders including RCMP and fire officials worked closely with Northern Health - and we are aware up to 25 patients were treated in total including four with serious burns who were subsequently transferred to facilities on the Lower mainland and in Edmonton. 14 remain at UHNBC this morning.
- There is no indication of fatalities at this time.
- Northern Health called a code orange at approximately 10 pm- which is standard practice when there is an incident of this nature - which was lifted at approximately 130 in the morning.
- We understand the fire itself is contained and they don't expect it to spread.
- I know the Fire Chief John Lane is saying the fire is expected to continue to burn for at least 24 hours. It's too early to determine a cause.
- I would like to thank all of the first responders – BC Ambulance, Fire crews, everyone at the University Hospital of British Columbia who worked so hard to get the workers to safety.
- There are no further known health impacts as a result of the fire and subsequent smoke and no evacuation was deemed necessary in the area.
- Again this information is preliminary and our hearts go out to the victims of this tragedy
- Our first priority is meeting the immediate needs of the community.
- The province is committed to supporting the community as we look to the future.

---

***IF ASKED:***

- Yes we are aware of a minor fire that occurred at the Lakeland site on February sixth. We understand a small blaze occurred in the sawdust collection system.
- We understand Lakeland Mills has its own fire protection crews on-site however PG Fire Rescue assisted to ensure the incident remained contained and all the hotspots were fully extinguished.
- Again it would be premature to link these two events...

Dick, Joan L LCTZ:EX

---

**From:** Greer, David GCPE:EX  
**Sent:** Tuesday, April 24, 2012 10:40 AM  
**To:** MacDiarmid, Margaret LCTZ:EX  
**Cc:** Dick, Joan L LCTZ:EX; Plant, Graham LCTZ:EX; Macnaughton, Jason GCPE:EX  
**Subject:** RE: Scrum Summary - Bob Simpson - touches on Mountain Pine Beetle dust, WorkSafeBC investigation

Yes we found that interesting. We'll get an answer for that.

-----Original Message-----

**From:** MacDiarmid, Margaret LCTZ:EX  
**Sent:** Tuesday, April 24, 2012 10:37 AM  
**To:** Greer, David GCPE:EX  
**Cc:** Dick, Joan L LCTZ:EX; Plant, Graham LCTZ:EX  
**Subject:** Re: Scrum Summary - Bob Simpson - touches on Mountain Pine Beetle dust, WorkSafeBC investigation

s13

Thank you,  
Margaret

Sent from my iPad

On 2012-04-24, at 10:25 AM, "Greer, David GCPE:EX" <David.Greer@gov.bc.ca> wrote:

> Will do. FYI we just posed these questions to WSBC  
>  
> Q 1. Who's ultimately responsible for safety at mills?  
>  
> Q 2. Who's responsible for fire safety at mills?  
>  
> Q 3. What's the difference between the Burns Lake/ PG regulatory environment?  
>  
> Q 4. What have you learned from the Babine investigation? Why is it taking so long? Will you/ can you accelerate the process with more resources?

>

> Q 5. What's being done to ensure this doesn't happen at another mill? When the mushroom farm incident occurred, WSBC suspended operations across the province - why not do that here?

>

> Q 6. Have inspections at mills decreased? Will WSBC increase inspections at mills as a result?

>

> Q 7. Are sawdust levels in mills monitored for combustion levels?

>

> Q 8. What studies have been done on the manufacturing processes around pine beetle wood? How have WSBC regulations been changed this the introduction of pine beetle wood to mills? What regulations do other jurisdictions have?

>

> Q 9. Will the support you offer the community/ company be similar to what's being done in Burns Lake?

>

>

>

> -----Original Message-----

> From: MacDiarmid, Margaret LCTZ:EX

> Sent: Tuesday, April 24, 2012 10:23 AM

> To: Greer, David GCPE:EX

> Cc: Dick, Joan L LCTZ:EX; Plant, Graham LCTZ:EX

> Subject: Re: Scrum Summary - Bob Simpson - touches on Mountain Pine Beetle dust, WorkSafeBC investigation

>

> Thanks, Dave.

>

> Just spoke with MLA Rustad. He is going on CKNW at 12:30 today about this explosion. He has already been speculating about pine beetle wood dust. He understands how important it is not to speculate about the cause of this explosion.

> He needs as much info as we have about what WorkSafe is doing for his interview. High level messaging. He says he will be on for about 10 minutes.

> Any other messaging would be great.

> He is getting support from caucus comms.

> Can you let me know who will help him? He was in the house but he is gone now.

>

> Thanks,

> Margaret

>

>

> Sent from my iPad

>

> On 2012-04-24, at 10:16 AM, "Greer, David GCPE:EX" <David.Greer@gov.bc.ca> wrote:

>

>> And then...

>>



>> -----Original Message-----

>> From: Murry, Karen GCPE:EX

>> Sent: Tuesday, April 24, 2012 10:15 AM

>> To: Paine, Alison GCPE:EX; Mentzelopoulos, Athana GCPE:EX; Bhullar, Barinder PREM:EX; Hann, Caeli GCPE:EX; Karn, David GCPE:EX; Lawrie, Hannah GCPE:EX; Fraser, John Paul GCPE:EX; Murry, Karen GCPE:EX; Gleeson, Kelly T GCPE:EX; McDonald, Mike PREM:EX; Lo, Mary GCPE:EX; Leamy, Michelle T PREM:EX; Sweeney, Neil PREM:EX; Bains, Parm GCPE:EX; Bajwa, Pavan GCPE:EX; Scott, Rebecca PREM:EX; Wharf, Sandy PREM:EX; MacIntyre, Sara PREM:EX; Mills, Shane PREM:EX; Sproule, Spencer PREM:EX; Halford, Trevor M PREM:EX; Bates Gibbs, Bonnie GCPE:EX; Kerr, Carleen JAG:EX; Heiman, Carolyn GCPE:EX; Townsend, Dave H GCPE:EX; Ritchie, Dave JAG:EX; Sitter, Donna GCPE:EX; Eastwood, Doug JAG:EX; Groot, Jeff GCPE:EX; Wolford, Jessica JAG:EX; McCaffrey, Julianne GCPE:EX; Coburn, Lindsay JAG:EX; Adair, Marisa GCPE:EX; Schollen, Tasha GCPE:EX; Clarke, Brennan GCPE:EX; Crebo, David GCPE:EX; Southern, Evan FLNR:EX; Murry, Sean FLNR:EX; Thomas, Vivian P GCPE:EX; Ehl, Cameron JTI:EX; McAndrews, Caroline GCPE:EX; Lansdell, Hayden GCPE:EX; MacInnis, Matthew JTI:EX; Parhar, TJ S JTI:EX; Greer, David GCPE:EX; Plant, Graham LCTZ:EX; Macnaughton, Jason GCPE:EX; Dick, Joan L LCTZ:EX

>> Subject: Scrum Summary - Bob Simpson - touches on Mountain Pine Beetle dust, WorkSafeBC investigation

>>

>> Steelworker in PG indicated no smell or indication that there might be problem.

>> Am concerned that increasing microdust from mountain pine beetle wood and our mills aren't built to deal with it.

>>

>> Work SafeBC finished investigation in Burns Lake - early findings -- we need to know what those are

>>

>> Too early to determine if the dust is the cause of what happened

>>

>> Micro dust - doesn't take much to spark it.

>>

>> Some grind Mountain Pine wood - resins are dry - dry turpentine...finds it sparks and would catch fire.

>>

>> WSBC - all our mills must be given heads up.

>>

>> In house last week, Bell indicated study was completed.

>>

>> Maybe no correlation but very unusual to have 2 mills explode - similar feel - instantaneous. Say to WSBC - if suspect anything - at least give heads up of any possible issue - ie. get rid of dust - look for build up.

>>

>> Dust is one of the things discussed in Burns Lake. If WSBC has any intelligence - it should be shared.

>>

>> More beyond WSBC - provincial level?

>> Know WSBC has experienced cuts - long standing questions of phoning mills in advance of inspection. All the mills in Burns Lake are experiencing new wood. Dust - isn't self evident? Mountain Pine wood is checked all the way through...fine, fine material. Burns Lake - people saying issues with dust collecting. Anecdotal info the dust was a problem.

**Dick, Joan L LCTZ:EX**

---

**From:** Greer, David GCPE:EX  
**Sent:** Tuesday, April 24, 2012 2:13 PM  
**To:** Dick, Joan L LCTZ:EX  
**Cc:** Plant, Graham LCTZ:EX  
**Subject:** RE:

Ok just let me know.

---

**From:** Dick, Joan L LCTZ:EX  
**Sent:** Tuesday, April 24, 2012 2:13 PM  
**To:** Greer, David GCPE:EX  
**Cc:** Plant, Graham LCTZ:EX  
**Subject:** RE:

s13

s13

Based on current time frame we should have time to do media.

---

**From:** Greer, David GCPE:EX  
**Sent:** Tuesday, April 24, 2012 2:09 PM  
**To:** Plant, Graham LCTZ:EX; Dick, Joan L LCTZ:EX  
**Subject:**

Do you think M3D needs/wants comms support for the meeting tomorrow?

David Greer  
Communications Director  
Ministry of Labour, Citizens' Services and Open Government  
Tel: 250 208-4350  
[david.greer@gov.bc.ca](mailto:david.greer@gov.bc.ca)

**Dick, Joan L LCTZ:EX**

---

**From:** Greer, David GCPE:EX  
**Sent:** Tuesday, April 24, 2012 3:27 PM  
**To:** Henderson, Kim N LCTZ:EX; Walman, Barbara J. LBR:EX; Dick, Joan L LCTZ:EX; Plant, Graham LCTZ:EX; Mentzelopoulos, Athana GCPE:EX  
**Cc:** Macnaughton, Jason GCPE:EX  
**Subject:** FW: NR-PG Explosion.doc  
**Importance:** High

FYI

---

**From:** Freeman, Donna  
**Sent:** Tuesday, April 24, 2012 2:55 PM  
**To:** Johnston, Megan  
**Subject:** NR-PG Explosion.doc



NR-PG  
Explosion.doc

Dick, Joan L LCTZ:EX

---

From: Macnaughton, Jason GCPE:EX  
Sent: Tuesday, April 24, 2012 4:09 PM  
To: Plant, Graham LCTZ:EX; Greer, David GCPE:EX  
Cc: Dick, Joan L LCTZ:EX  
Subject: RE: Messaging

From her transcript this afternoon:

This is a terrible tragedy.

It is extraordinary to me that two mills in British Columbia - in Burns Lake and in Prince George -- would see sawmill blast accidents in the span of four months

WorkSafe BC will issue an immediate order to so a safety inspection of all sawmills in the province, and to look particularly at the issue of sawdust combustibility, as there is no policy around this issue at present.

Mills will be inspected from top to bottom, to ensure all steps are being taken to address worker safety. WorkSafe formally issued that order today.

It's unacceptable for a tragedy like this to happen. It's devastating for everyone. And, we owe it to those families to get all the answers. I promise you we will do everything we can to uncover the facts about these accidents.

For tomorrow I'm convening a meeting with WorkSafe, the Council of Forest Industries and the United Steelworkers Union to discuss the issue.

It's important for us to continue to work to make sure we're doing everything we possibly can to address worker safety.

-----Original Message-----

From: Plant, Graham LCTZ:EX  
Sent: Tuesday, April 24, 2012 3:29 PM  
To: Greer, David GCPE:EX; Macnaughton, Jason GCPE:EX  
Cc: Dick, Joan L LCTZ:EX  
Subject: Messaging

How goes the crafting?

Dick, Joan L LCTZ:EX

---

**From:** Plant, Graham LCTZ:EX  
**Sent:** Tuesday, April 24, 2012 1:21 PM  
**To:** Mills, Shane PREM:EX; Sproule, Spencer PREM:EX; Southern, Evan FLNR:EX; Ritchie, Dave JAG:EX; Coburn, Lindsay JAG:EX; MacInnis, Matthew JTI:EX; Parhar, TJ S JTI:EX; Dick, Joan L LCTZ:EX; Ehl, Cameron JTI:EX  
**Subject:** Lakeland

MMM has convened a meeting with WorkSafeBC CEO Dave Anderson and Steve Hunt from USW for tomorrow morning in Vancouver, and we are still trying to contact John Allen from COFI to see if he can attend as well. Here is some messaging she is using that we will be refining on an ongoing basis:

Terrible tragedy. Primary concern today is injured workers and their families.

I have spoken with the Board Chair and CEO of WorkSafe and I am advised that WorkSafe intends to order a complete investigation and risk assessment of every mill in the province. It will be top to bottom. Officers will be on site and able to issue any corrective orders. I have asked them to do this immediately.

We do not at this time know what caused these two explosions. We know that sawdust is something in common between the two.

While we wait for these investigations to be complete we need to ensure that everything that can be done will be done.

I will convene a meeting tomorrow regarding what can we do to reassure workers around the province that every step is being taken to address their safety. I have spoken with Steve Hunt of the steel workers and am in touch with COFI for their participation.

**Graham Plant**

*Executive Assistant to the Honourable Margaret MacDiarmid*

*Minister of Labour, Citizens' Services and Open Government*

*Direct: 250-387-9846 Cell: s17, s22*

[Graham.Plant@gov.bc.ca](mailto:Graham.Plant@gov.bc.ca)

Dick, Joan L LCTZ:EX

---

**From:** Plant, Graham LCTZ:EX  
**Sent:** Tuesday, April 24, 2012 3:13 PM  
**To:** James, Ben LASS:EX  
**Cc:** Dick, Joan L LCTZ:EX; Sproule, Spencer PREM:EX  
**Subject:** FYI - Lakeland

Hi Ben,

We've received one request (MLA Barnett) for some messaging on Lakeland, and would like to distribute some brief messages to all members on the tragedy last night and government's next steps. I will send you some bullets briefly, could you touch them up and send them out? Cheers,

**Graham Plant**

*Executive Assistant to the Honourable Margaret MacDiarmid*

*Minister of Labour, Citizens' Services and Open Government*

*Direct: 250-387-9846 Cell: s17, s22*

[Graham.Plant@gov.bc.ca](mailto:Graham.Plant@gov.bc.ca)

Dick, Joan L LCTZ:EX

---

From: Plant, Graham LCTZ:EX  
Sent: Tuesday, April 24, 2012 4:39 PM  
To: James, Ben LASS:EX  
Cc: Dick, Joan L LCTZ:EX

Hi Ben,

Here are some bullets – please edit as necessary. I told Lyndsey Easton I would have these to her shortly, so could you ensure she gets them as well? Many thanks.

- The event that occurred last night in Prince George is a terrible tragedy, and our primary concern is caring for the injured workers and their families.
- We all applaud the incredible response from emergency responders and health care professionals.
- This afternoon, WorkSafeBC issued orders to all sawmill employers in B.C. directing that they conduct a full hazard identification, risk assessment and safety review with particular focus on combustible dust; dust accumulation; and potential ignition sources. It was on the insistence of Minister Margaret MacDiarmid that this work proceed immediately.
- WorkSafeBC officers will be following up on these orders to confirm that the ordered actions have been taken and that sawmills are in compliance with the Workers Compensation Act and Occupational Health and Safety Regulation.
- Worker safety remains of paramount importance to our government, and so Minister MacDiarmid is convening a meeting tomorrow with industry experts to discuss mill safety, with a specific focus on the recent tragedies in Burns Lake and Prince George. Representatives from WorkSafeBC, the United Steelworkers, the Council of Forest Industries, and the B.C. Forest Safety Council will all be present.

**Graham Plant**

*Executive Assistant to the Honourable Margaret MacDiarmid*

*Minister of Labour, Citizens' Services and Open Government*

*Direct: 250-387-9846 Cell. s17, s22*

[Graham.Plant@gov.bc.ca](mailto:Graham.Plant@gov.bc.ca)

**Dick, Joan L LCTZ:EX**

---

**From:** Dick, Joan L MSD:EX  
**Sent:** Wednesday, January 25, 2012 3:11 PM  
**To:** Sieben, Mark MSD:EX  
**Subject:** RE: Burns Lake Situation Report - MSD

M:  
happy to get this. Easier to flip than to start editing.  
J.

---

**From:** Sieben, Mark MSD:EX  
**Sent:** Wednesday, January 25, 2012 3:04 PM  
**To:** Dick, Joan L MSD:EX  
**Subject:** FW: Burns Lake Situation Report - MSD

Do you guys want in on the loop regarding activity in Burns Lake inclusive but not limited to MSD or just if I identify noteworthy items?

---

**From:** Currie, Tami MSD:EX  
**Sent:** Wednesday, January 25, 2012 1:19 PM  
**To:** Bond, Allison MSD:EX; Moysey, Sharon J MSD:EX; Mader, Susan GCPE:EX; Smith, Bruce MSD:EX; Curtis, David SG:EX; Sieben, Mark MSD:EX  
**Cc:** Harrower, Ian MSD:EX; Fraser, Sarah W JTI:EX; Lewis, Kaaren JTI:EX; Adolph, Jerenia MSD:EX  
**Subject:** Burns Lake Situation Report - MSD

not responsive



not responsive

Tami Currie  
Executive Director of Operations  
Employment and Labour Market Services Division  
Ministry of Social Development  
(phone) 250 387-9625  
(cell) s17, s22

**Dick, Joan L LCTZ:EX**

---

**From:** Greer, David GCPE:EX  
**Sent:** Thursday, March 8, 2012 8:14 AM  
**To:** Plant, Graham LCTZ:EX; Dick, Joan L MSD:EX  
**Subject:** FW: Burns Lake Situation Report and Key Messages - March 7th

FYI

---


**From:** Fraser, Sarah W JTI:EX  
**Sent:** Thursday, March 8, 2012 8:14 AM  
**To:** Dyble, John C PREM:EX; Hayden, Dana JTI:EX; Milburn, Peter R FIN:EX; Sieben, Mark MSD:EX; MacDougall, Michael HLTH:EX; Mentzelopoulos, Athana GCPE:EX; Sweeney, Neil PREM:EX; Denlinger, Becky SG:EX; Mills, Shane PREM:EX  
**Cc:** Greer, David GCPE:EX; Crebo, David GCPE:EX; Sitter, Donna GCPE:EX; McCaffrey, Julianne GCPE:EX; Schollen, Tasha GCPE:EX; DeLuca, Lori GCPE:EX; Adair, Marisa GCPE:EX; Gleeson, Kelly T GCPE:EX; Wilkie, Maria GCPE:EX; Bates Gibbs, Bonnie GCPE:EX; Paulson, Aleesa JTI:EX; Fraser, Sarah W JTI:EX; Clark, Bob JTI:EX; Carroll, Sandra JTI:EX; Stewart, Michelle GCPE:EX; Gordon, Matt GCPE:EX; Mader, Susan GCPE:EX; Lansdell, Hayden GCPE:EX  
**Subject:** Burns Lake Situation Report and Key Messages - March 7th

Please find the Cross-Ministry Burns Lake Situation Report and Key Messaging for March 7th attached. These reports will be sent to you once a week all new information is in bold text.



Burns Lake      KM\_JTI\_BURNS  
ecovery Sit Report\KE\_March72012.d

**Sarah Fraser, MBA** Executive Director Regional Economic Operations Ministry of Jobs, Tourism & Innovation 250 952-0864

 Please consider the environment before printing this e-mail

MINISTRY OF JOBS, TOURISM AND INNOVATION  
**SITUATION REPORT**

Cliff #: 476284

Date: March 7, 2012

**PREPARED FOR: John Dyble, Deputy Minister to the Premier  
FOR INFORMATION**

*Updated information from the March 1, 2012 Situation Report has been **Bolded**.*

**Event Name: Burns Lake (Babine Forest Products) Mill Explosion and Fire**

**EVENT CONTEXT:**

On Friday, January 20, 2012, a fire occurred near Burns Lake, BC, at Babine Forest Products. The explosion and fire resulted in the loss of two lives and injured 19 others. The event resulted in the complete loss of the sawmill. However, some facilities including the planer mill and drying kilns are reportedly intact. The event was an industrial accident with the potential for insurable losses (which have not yet been determined).

The mill is located on First Nations' land and is the largest employer in the area employing 252 full time employees and 17 part-time employees. Ownership of the facility is shared between Hampton Affiliates from Portland Oregon (~90%) and the Babine First Nations (~10%).

**ON-SITE AND COMMUNITY SITUATION:**

- The RCMP has been working with engineers and WorkSafe BC to ensure the site is rendered safe.
- The RCMP transitioned site maintenance and security to WorkSafe BC on January 26<sup>th</sup>.
- **A small fire occurred at the Deker mill near Burns Lake on March 6. The source was a heater in the roof, in which the fan stopped working, but the motor continued to run and caught fire. The fire was contained by mill employees, and while 1 was treated for smoke inhalation, there were no further injuries reported and the mill resumed operation.**

not responsive

Pages 195 through 196 redacted for the following reasons:

-----

not responsive

not responsive

**RESPONSE:**

Patient Care:

- 1 patient remains at VGH (VCHA); continues to improve and is stable.

not responsive

not responsive

Date: March 7, 2012

## **Burns Lake (Babine Forest Products) Mill Explosion & Fire OVERARCHING MESSAGING – HIGH LEVEL**

not responsive

not responsive

Patient update:

- As of February 29, 2012 – 18 patients have been released with **1 patient remaining at VGH (VCHA); continues to improve and is stable.**

not responsive



**Dick, Joan L LCTZ:EX**

---

**From:** Plant, Graham LCTZ:EX  
**Sent:** Wednesday, March 21, 2012 6:43 PM  
**To:** Dick, Joan L MSD:EX  
**Subject:** Re: Burns Lake

Yes. Not sure what the flight times are, but told Yvette to leave a window after Cabinet for that purpose. I've got DG and Jason looking into other opportunities as well, just FYI. Thanks Joan.

-G

---

**From:** Dick, Joan L MSD:EX  
**Sent:** Wednesday, March 21, 2012 05:49 PM  
**To:** Plant, Graham LCTZ:EX  
**Subject:** Re: Burns Lake

s.15

s.15  
Okay, I'll talk to Scott tomorrow. Will ask about WSBC opportunities for the afternoon of the 12th (I understand that the event is at 10:00 am at the  
Should I ask about the early afternoon on the 13th before departure? What are the return flight times?

J.

J.

---

**From:** Plant, Graham LCTZ:EX  
**Sent:** Wednesday, March 21, 2012 05:01 PM  
**To:** Dick, Joan L MSD:EX  
**Subject:** RE: Burns Lake

Spoke with the Minister this afternoon, and we will not be heading to Burns Lake on this trip North. Thanks J,

-G

---

**From:** Dick, Joan L MSD:EX  
**Sent:** Wednesday, March 21, 2012 5:00 PM  
**To:** Plant, Graham LCTZ:EX  
**Subject:** Fw: Burns Lake

G:

Just FYI, I'll respond to Scott but let me know if MMM says okay because obviously I don't want to ask for a date change if I don't have to.

J.

**From:** McCloy, Scott [mailto:Scott.McCloy@worksafebc.com]  
**Sent:** Wednesday, March 21, 2012 04:09 PM  
**To:** Dick, Joan L MSD:EX  
**Subject:** Burns Lake

Hi, Joan. Further to yesterday's conversation, I have the mandate to assist the Minister onsite at the accident scene on whichever day you choose, along with my colleague Jeff Dolan, who is our director of Investigations and who is leading our investigating team at Babine Lake Forest Products. We are flexible with regard to the Minister's schedule and will await your communication as to timing, requirements/needs, etc. closer to the dates you noted of April 12, 13 or 14. We look forward to further conversations going forward and to the potential of assisting the Minister and any associates on that day. Cheers, Scott

Get clearance letters at the jobsite on your smartphone or tablet. Access WorkSafeBC's new app:  
[http://www.worksafebc.com/insurance/managing\\_your\\_account/clearance\\_letters/default.asp](http://www.worksafebc.com/insurance/managing_your_account/clearance_letters/default.asp)

#### CONFIDENTIALITY DISCLAIMER

The information contained in this transmission may contain privileged and confidential information of WorkSafeBC - the Workers' Compensation Board. It is intended for review only by the person(s) named above. Dissemination, distribution or duplication of this communication is strictly prohibited by all recipients unless expressly authorized otherwise. If you are not the intended recipient, please contact the sender by reply email and destroy all copies of the original message. Thank you.

**Dick, Joan L LCTZ:EX**

---

**From:** Greer, David GCPE:EX  
**Sent:** Thursday, March 22, 2012 8:31 AM  
**To:** Dick, Joan L MSD:EX; Plant, Graham LCTZ:EX  
**Subject:** FW: Burns Lake Situation Report March 21st

FYI

---


**From:** Fraser, Sarah W JTI:EX  
**Sent:** Wednesday, March 21, 2012 7:12 PM  
**To:** Dyble, John C PREM:EX; Hayden, Dana JTI:EX; Milburn, Peter R FIN:EX; Sieben, Mark MSD:EX; MacDougall, Michael HLTH:EX; Mentzelopoulos, Athana GCPE:EX; Sweeney, Neil PREM:EX; Denlinger, Becky SG:EX; Mills, Shane PREM:EX  
**Cc:** Greer, David GCPE:EX; Crebo, David GCPE:EX; Sitter, Donna GCPE:EX; McCaffrey, Julianne GCPE:EX; Schollen, Tasha GCPE:EX; DeLuca, Lori GCPE:EX; Adair, Marisa GCPE:EX; Gleeson, Kelly T GCPE:EX; Wilkie, Maria GCPE:EX; Bates Gibbs, Bonnie GCPE:EX; Paulson, Aleesa JTI:EX; Fraser, Sarah W JTI:EX; Clark, Bob JTI:EX; Carroll, Sandra JTI:EX; Stewart, Michelle GCPE:EX; Gordon, Matt GCPE:EX; Mader, Susan GCPE:EX; Lansdell, Hayden GCPE:EX; Goodwin, Greg JTI:EX; Henderson, Lori JTI:EX  
**Subject:** Burns Lake Situation Report March 21st

Please find the Cross-Ministry Burns Lake Situation Report and Key Messaging for March 21st attached. These reports will be sent to you once a week, all new information is in bold text.



KM\_JTI\_BURNS      Burns Lake  
AKE\_March212012recovery Sit Report

**Sarah Fraser, MBA** Executive Director    Regional Economic Operations : Ministry of Jobs, Tourism and Innovation | 250 952-0644

 Please consider the environment before printing this e-mail

MINISTRY OF JOBS, TOURISM AND INNOVATION  
**SITUATION REPORT**

Cliff #: 476284

Date: March 21, 2012

**PREPARED FOR: John Dyble, Deputy Minister to the Premier  
FOR INFORMATION**

*Updated information from the March 14, 2012 Situation Report has been **Bolded**.*

**Event Name: Burns Lake (Babine Forest Products) Mill Explosion and Fire**

**EVENT CONTEXT:**

On Friday, January 20, 2012, a fire occurred near Burns Lake, BC, at Babine Forest Products. The explosion and fire resulted in the loss of two lives and injured 19 others. The event resulted in the complete loss of the sawmill. However, some facilities including the planer mill and drying kilns are reportedly intact. The event was an industrial accident with the potential for insurable losses (which have not yet been determined).

The mill is located on First Nations' land and is the largest employer in the area employing 252 full time employees and 17 part-time employees. Ownership of the facility is shared between Hampton Affiliates from Portland Oregon (~90%) and the Burns Lake Native Development Corporation (~10%).

**ON-SITE AND COMMUNITY SITUATION:**

- The RCMP has been working with engineers and WorkSafe BC to ensure the site is rendered safe.
- The RCMP transitioned site maintenance and security to WorkSafe.BC on January 26<sup>th</sup>.
- A small fire occurred at the Deker mill near Burns Lake on March 6. The source was a heater in the roof, in which the fan stopped working, but the motor continued to run and caught fire. The fire was contained by mill employees, and while 1 was treated for smoke inhalation, there were no further injuries reported and the mill resumed operation.

not responsive

not responsive

s12

Pages 206 through 207 redacted for the following reasons:

-----

not responsive

not responsive

**RESPONSE:**

Patient Care:

- 1 patient remains at VGH (VCHA); continues to improve and is stable.

not responsive

Pages 209 through 210 redacted for the following reasons:

-----

not responsive



Date: March 21, 2012

## **Burns Lake (Babine Forest Products) Mill Explosion & Fire OVERARCHING MESSAGING – HIGH LEVEL**

not responsive

not responsive

Patient update:

- 1 patient remains at VGH (VCHA); continues to improve and is stable.

not responsive

not responsive

**Dick, Joan L LCTZ:EX**

---

**From:** Greer, David GCPE:EX  
**Sent:** Thursday, March 29, 2012 1:17 PM  
**To:** Plant, Graham LCTZ:EX; Dick, Joan L MSD:EX  
**Subject:** Fw: Burns Lake Situation Report for March 28th  
**Attachments:** Burns Lake Recovery Sit Report March 28 final.docx; KM\_JTI\_BURNS LAKE\_March282012.docx


---

**From:** Fraser, Sarah W JTI:EX  
**Sent:** Thursday, March 29, 2012 12:58 PM  
**To:** Dyble, John C PREM:EX; Hayden, Dana JTI:EX; Milburn, Peter R FIN:EX; Sieben, Mark MSD:EX; MacDougall, Michael EHSC:EX; Mentzelopoulos, Athana GCPE:EX; Sweeney, Neil PREM:EX; Denlinger, Becky SG:EX; Mills, Shane PREM:EX  
**Cc:** Greer, David GCPE:EX; Crebo, David GCPE:EX; Sitter, Donna GCPE:EX; McCaffrey, Julianne GCPE:EX; Schollen, Tasha GCPE:EX; DeLuca, Lori GCPE:EX; Adair, Marisa GCPE:EX; Gleeson, Kelly T GCPE:EX; Wilkie, Maria GCPE:EX; Bates Gibbs, Bonnie GCPE:EX; Paulson, Aleesa JTI:EX; Fraser, Sarah W JTI:EX; Clark, Bob JTI:EX; Carroll, Sandra JTI:EX; Stewart, Michelle GCPE:EX; Gordon, Matt GCPE:EX; Mader, Susan GCPE:EX; Lansdell, Hayden GCPE:EX; Goodwin, Greg JTI:EX; Henderson, Lori JTI:EX  
**Subject:** Burns Lake Situation Report for March 28th

Please find the Cross-Ministry Burns Lake Situation Report and Key Messaging for March 28<sup>th</sup> attached. These reports will be sent to you once a week, all new information is in bold text

. <<Burns Lake Recovery Sit Report March 28 final.docx>> <<KM\_JTI\_BURNS LAKE\_March282012.docx>>

**Sarah Fraser, MBA** : Executive Director | Regional Economic Operations | Ministry of Jobs, Tourism & Innovation | 250 952-0664

 Please consider the environment before printing this e-mail

MINISTRY OF JOBS, TOURISM AND INNOVATION  
**SITUATION REPORT**

Cliff #: 476284

Date: March 28, 2012

**PREPARED FOR: John Dyble, Deputy Minister to the Premier  
FOR INFORMATION**

*Updated information from the March 21<sup>st</sup>, 2012 Situation Report has been **Bolded**.*

**Event Name: Burns Lake (Babine Forest Products) Mill Explosion and Fire**

**EVENT CONTEXT:**

On Friday, January 20, 2012, a fire occurred near Burns Lake, BC, at Babine Forest Products. The explosion and fire resulted in the loss of two lives and injured 19 others. The event resulted in the complete loss of the sawmill. However, some facilities including the planer mill and drying kilns are reportedly intact. The event was an industrial accident with the potential for insurable losses (which have not yet been determined).

The mill is located on First Nations' land and is the largest employer in the area employing 252 full time employees and 17 part-time employees. Ownership of the facility is shared between Hampton Affiliates from Portland Oregon (~90%) and the Burns Lake Native Development Corporation (~10%).

**ON-SITE AND COMMUNITY SITUATION:**

- The RCMP has been working with engineers and WorkSafe BC to ensure the site is rendered safe.
- The RCMP transitioned site maintenance and security to WorkSafe BC on January 26<sup>th</sup>.
- A small fire occurred at the Deker mill near Burns Lake on March 6. The source was a heater in the roof, in which the fan stopped working, but the motor continued to run and caught fire. The fire was contained by mill employees, and while 1 was treated for smoke inhalation, there were no further injuries reported and the mill resumed operation.

not responsive

not responsive

s12

Pages 217 through 218 redacted for the following reasons:

-----

not responsive

not responsive

**RESPONSE:**

Patient Care:

- 1 patient at GF Strong Rehabilitation Center in Vancouver, and continues to improve and is stable (patient was transferred March 28 from VGH to GFS).

not responsive



Pages 220 through 221 redacted for the following reasons:

-----

not responsive

Date: March 28, 2012

## **Burns Lake (Babine Forest Products) Mill Explosion & Fire OVERARCHING MESSAGING – HIGH LEVEL**

not responsive

Patient update:

As of March 27, 2012 – 18 patients have been released with only 1 patient remaining in hospital at GF Strong Rehabilitation Centre in Vancouver in stable condition. GF Strong Rehabilitation Centre is British Columbia's largest rehabilitation centre.

not responsive

not responsive

**Dick, Joan L LCTZ:EX**

---

**From:** MacDiarmid, Margaret LCTZ:EX  
**Sent:** Tuesday, May 1, 2012 12:56 PM  
**To:** Dick, Joan L LCTZ:EX; Plant, Graham LCTZ:EX  
**Subject:** Fw: CBYG: Talkback concerned about mill safety

Need WorkSafe's info about surprise inspections please. How many last year? H  
Of the 76 done since Burns Lake explosion, were all unannounced? What term do they use- I doubt it is "surprise" inspection.

Thanks  
M

---

**From:** [tno@gov.bc.ca](mailto:tno@gov.bc.ca) [<mailto:tno@gov.bc.ca>]  
**Sent:** Tuesday, May 01, 2012 11:37 AM  
**Subject:** CBYG: Talkback concerned about mill safety

s3

TNO...

This e-mail is a service provided by Today's News Online and is only intended for the original addressee. All content is the copyrighted property of a third party creator of the material. Copying, retransmitting, redistributing, selling, licensing, or emailing the material to any third party or any employee of the Province who is not authorized to access the material is prohibited.

Dick, Joan L LCTZ:EX

---

**From:** Freeman, Donna [Donna.Freeman@worksafebc.com]  
**Sent:** Tuesday, May 1, 2012 5:06 PM  
**To:** Greer, David GCPE:EX; Dick, Joan L LCTZ:EX  
**Subject:** fire inspection.doc



fire  
inspection.doc

Roberta asked me to provide this memo to the Vancouver Sun.

## 1. Who is responsible for fire safety in workplaces?

### *BC Fire Commissioner's Office*

The primary jurisdiction for fire safety in the province is the BC Fire Commissioner's Office. As noted from their website:

The Office of the Fire Commissioner is the senior fire authority in the province with respect to fire safety and prevention. Services include administration and enforcement of fire safety legislation, training of local assistants to the fire commissioner, fire loss statistics collection, fire investigation, fire inspection, response to major fire emergencies, advice to local governments on delivery of fire protection services, public fire safety education and fire fighter certification. ...

The Office of the Fire Commissioner administers the *Fire Services Act* and the BC Fire Code. Under this legislative authority, the Office appoints and trains Local Assistants to the Fire Commissioner (LAFC), implements fire safety regulations, processes technical code changes and resolves appeals.

### *OHS Guideline - G-D1-108-4 Fire safety and prevention*

This guideline is about the jurisdiction for fire safety and our prevention practices regarding observed fire hazards. It has been in place since 2006. The guideline includes protocols for communications between WorkSafeBC's and the Office of the Fire Commissioner and the Office's jurisdiction over fire safety and fire protection in British Columbia. As noted:

#### **Jurisdiction**

The Office is the senior authority having jurisdiction over fire safety and prevention in B.C. The Office administers the *Fire Services Act* and its regulations, and appoints and trains local assistants to the Fire Commissioner.

#### **Prevention Officers interaction with the Office of the Fire Commissioner**

[Given the jurisdictional limits of WorkSafeBC over fire safety in view of the *Fire Services Act* (and following Policy D-108-1 - Where Jurisdiction Limits Exist),] ... where WorkSafeBC prevention officers observe what they believe to be a violation of the *Fire Services Act* or its regulations, prevention officers will notify the local assistant to the Fire Commissioner. Before notifying the local assistant, the prevention officer should inform the employer of the situation that may be a violation of the *Fire Services Act* or its regulations and that the officer will be advising the Office about a possible violation. Prevention officers will not issue an order or exercise another power to directly enforce a statute or regulation of another agency.

The Office advises that at times, there may be some outstanding fire safety issues that are not resolved in a workplace. These could be violations under the *Workers Compensation Act* or the *OHS Regulation*. The local assistants to the fire commissioner (LAFCs) will let the owners/employers know that the items, if not corrected, will be reported to WorkSafeBC. The LAFCs will report issues they are aware of that affect worker health and safety to WorkSafeBC by calling the Prevention Call Centre or the toll free number. If the issue involves a high risk or immediate danger to a worker, the LAFC would advise the Prevention Call Centre so that a prevention officer could be assigned to respond promptly. For less urgent matters, the LAFC would understand that it may take several business days for the prevention officer to receive the information and follow up.

#### *Other*

Other agencies may also have a role in regards to follow-up when a fire has occurred. As seen with the recent saw mill incidents, various parties will be involved in the fire investigation as it pertains to their

mandate and jurisdiction. The fire safety and prevention mandate of these authorities is secondary to their primary role and jurisdiction - e.g. gas, electrical, boilers regulation (BC Safety Authority), fact finding regarding identity and circumstances of a person's death (Coroner's Service), mines, including worker safety (Ministry of Energy and Mines), criminal activity (police authorities), health and safety of workers (WorkSafeBC).

## **2. When must employers notify WorkSafeBC of a fire in a workplace?**

### *Serious incidents – report and investigate*

Section 172 of the WCA sets out the circumstances when an employer must immediately notify WorkSafeBC of the occurrence of an accident. The employer would be required to notify us of a fire if it was associated with any of the following incidents which:

- resulted in serious injury to or the death of a worker,
- involved a major structural failure or collapse of a building, bridge, tower, crane, hoist, temporary construction support system or excavation,
- involved the major release of a hazardous substance.

### *Less serious incidents – investigate some*

Even if a fire in a workplace does not meet the criteria above for reporting immediately to WorkSafeBC, where a fire occurs which resulted in injury to a worker requiring medical treatment, or had a potential for causing serious injury, the employer is required to do their own accident investigation, and provide a copy to WorkSafeBC (Section 173 WCA). Notably, in practice, a very small percentage of these kinds of incident reports are provided to WorkSafeBC.

Where an investigation is required, the employer must as far as possible, determine the causes of the incident, identify any unsafe conditions, acts or procedures that contributed to the incident, and recommend corrective action to prevent similar incidents. Then, the employer must without undue delay undertake any corrective actions required to prevent recurrence of similar incidents.

In all other more minor cases, including where a fire may have occurred, there is no requirement to report to WorkSafeBC or conduct an investigation under our legislation.

## **3. What does WorkSafeBC do when advised of a fire?**

As provided in the protocol in the guideline, where our officers become aware of fire hazards or they are following up on a reported workplace incident that involved a fire, they would ensure compliance with the OHS Regulation. If the local assistant to the fire commissioner was not already involved, they would be contacted.

## **4. How do we work with the Fire Commissioner's Office?**

Protocols for communication between WorkSafeBC and the Fire Commissioner's Office are as noted in the guideline. The level of adherence by both parties to these protocols is likely most dependent on the relationships established in each particular region in the province.

## **5. Other**

While WorkSafeBC does not have primary jurisdiction over fire safety and prevention, we do have numerous sections of the OHS Regulation relating to issues at the workplace where fire could present a hazard to workers from a particular environment or work process, e.g. welding. See the attached Appendix for list of the sections.

WorkSafeBC also provides a wide variety of information to employers about fire prevention at workplaces. This information is included in hazards alerts, investigation reports, posters and stickers and tool box meeting resources.



Dick, Joan L LCTZ:EX

---

**From:** Greer, David GCPE:EX  
**Sent:** Wednesday, May 2, 2012 9:13 AM  
**To:** Dick, Joan L LCTZ:EX; Plant, Graham LCTZ:EX  
**Subject:** Fw: Briefing note: today's investigation update  
**Attachments:** BN - Babine Inv Update.doc

You guys get this?

---

**From:** Johnston, Megan [<mailto:Megan.Johnston@worksafebc.com>]  
**Sent:** Wednesday, May 02, 2012 08:31 AM  
**To:** Jensen, Allison H GCPE:EX; Greer, David GCPE:EX  
**Subject:** Briefing note: today's investigation update

<<BN - Babine Inv Update.doc>>

**Megan Johnston**

Communications Officer, Media Relations

WorkSafeBC

t 604.214.6934

*Follow WorkSafeBC Media Relations on [Twitter](#)*

## ADVICE TO MINISTER

### CONFIDENTIAL ISSUES NOTE

MINISTRY OF LABOUR, CITIZENS' SERVICES AND OPEN  
GOVERNMENT

DATE: MAY 1, 2012

MINISTER RESPONSIBLE: HON. MARGARET MCDIARMID

CREATED BY: DONNA FREEMAN

# WORK SAFE BC

WORKING TO MAKE A DIFFERENCE

## Babine Forest Products Investigation Update

**KEY FACTS REGARDING THE ISSUE:** WorkSafeBC officials will be meeting with industry and labour stakeholders Wednesday May 2<sup>nd</sup> to update them on the status of the Babine Forest Products Investigation update. This meeting is being held to honour a commitment made by the WorkSafeBC President at the stakeholder meeting hosted by the Minister of Labour. The overview document will be posted on WorkSafeBC's website.

### ADVICE AND RECOMMENDED RESPONSES:

- WorkSafeBC is conducting investigations into sawmill explosions in Burns Lake and Prince George
- The explosion in Burns Lake was the first of its kind in BC's history – a second explosion with similar characteristics – is an extraordinary and unparalleled circumstance.
- WorkSafeBC is sparing no resources, monetary or human, to facilitate expedited investigations in both cases.
- WorkSafeBC is committed to providing any information to the industry, stakeholders and public as it becomes available if it relates to imminent safety hazards; however the investigations are on-going and the legal rights of parties must be respected.
- Both investigations are expected to take many more months to conclude and will be released upon their conclusion in the community in which the event took place.

### BACKGROUND

- The Director of Investigations will present a report to this meeting of stakeholders that describes both the investigations process and the status of Babine Forest Products
- Stakeholders attending include the Council of Forest Industries, BC Forest Safety Council, BC Safety Authority, the Steelworkers, the Management Advisory Group to Forest Products Manufacturing and a representative from the Government of British Columbia
- The information provided to participants and media is not an interim investigation report; the purpose of the meeting is to clarify any misinformation that may exist in the industry, community or media
- WorkSafeBC investigation is conducted to determine the cause and underlying factors of an incident
- Initial response and evidence collection includes:
  - Scene examination
  - Witness interviews
  - Collection of documents

## ADVICE TO MINISTER

- Seizure of equipment, machinery, debris and all other relevant evidence that led to the incident
- Evidence and information is analyzed, including
  - Documentation of the sequence of events
  - Underlying factors and unsafe conditions
  - Assessment of adequacy of hazard defenses for workers
  - Identification of health and safety deficiencies as defined by the Workers Compensation Act and Occupational Health and Safety Regulation (OHS Reg)
- Factual information is used to determine the findings and conclusions of the investigation and are written in an Investigation Report
- WorkSafeBC investigations are conducted in cooperation with other agencies including Police, Coroner, BC Safety Authority and fire officials

### OVERVIEW OF BABINE FOREST PRODUCTS INVESTIGATION

- Amongst largest scene investigations in organizational history
- Investigation to date has involved many as 20 members of Investigations staff
- 80+ witness interviews conducted and witnesses continue to come forward as recently as Day of Mourning in Burns Lake
- Several items of interest have been seized for further testing
- Footprint of incident site required in excess of 3000 lineal ft of fencing
- On the evening of January 20, 2012 an explosion and fire destroyed the Babine Forest Products sawmill
- Scene initially under control of police and fire departments. WorkSafeBC officers on-site within hours
- Afternoon of January 26, 2012 - WorkSafeBC assumed jurisdiction of the mill site from the RCMP and BC Coroners Service after the remains of Carl Charlie and Robert Luggi were located and removed
- Initial access to scene prevented by fire, unsafe structure and unidentified hazards i.e. "minefield" of acetylene bottles and other hazards buried beneath the perimeter snow
- Jan 26: WorkSafeBC team with Hampton and its insurer to begin to plan for coordinated access to the site.
- February 9, 2012: site examination began at periphery following health & safety plan to mitigate hazards
- 3<sup>rd</sup> week of February: Plan developed to access the site further following completion of examination of key outer areas. Safety of structure and other hazards continued to present OH&S challenges for the investigation team
- End of February/Beginning of March the required time was taken to assess the investigation to that point and develop a plan moving forward
- Second week of March 2012 plan developed in accordance with National Fire Protection Association (NFPA) 921, which is the Guide for Fire and Explosion Investigations, for two cranes and other heavy machinery to access site and remove debris.
- Required contracts and agreements put in place for work to be performed safely at the site
- Heavy equipment brought in from Prince George and other areas to begin work on March 27.
- Investigators methodically moved into the mill in search of location and source of ignition
- Debris including building structures and equipment destroyed by the blast had to be carefully moved using heavy equipment so evidence was not disturbed.
- Portions of the unstable structure also removed to allow safe access for investigators.
- Scene examination completed on the weekend of April 14<sup>th</sup>.

## ADVICE TO MINISTER

- Saw mill returned to the owner at noon on April 19, 2012
- Analysis phase since April 19, 2012 which includes:
  - Ongoing examination of evidence obtained from the site from January 21 – April 14, 2012
  - Testing of evidence is being scheduled and all affected agencies and parties will be advised of their time and location
- Possible factors contributing to the risk of explosion that continue to be examined include, but are not limited to:
  - Witness interviews
  - Scene photographs
  - Maintenance and cleaning records from sawmill
  - Production level records; recent and historic
  - Type of wood being milled prior to the incident; beetle kill and/or green wood
  - Exhaust and ventilation systems and schedules for the mill
  - Effect of cold weather in the days preceding; -41°C (Environment Canada)
  - Effect of cold on water pipes and misters
  - Sawdust accumulations
  - All relevant WorkSafeBC history of the Babine Forest Products

### POSSIBLE FUEL SOURCES KNOWN TO BE IN THE MILL:

No evidence at this time to suggest the following as fuel source of the explosion:

Hot oil  
Hydraulic oil  
Gear oil  
Oxygen  
Acetylene

~~At this time the following continue to be examined as possible fuel sources:~~

- Natural gas
  - Pipe and valve have been seized for further testing - BCSA
- Propane
  - Two tanks seized for further testing
- Sawdust – An expert lab in US has been retained to examine the numerous samples taken from the mill for particle size and the Minimum Explosive Concentration required to be the fuel for an explosion.

### POSSIBLE IGNITION SOURCES KNOWN TO BE IN THE MILL:

- Exhibits were removed from a 50' x 50' area determined to be the location of the ignition source

No Evidence to suggest at this time that the explosion was caused by either:

- Arson, or
- Lightning strike

Impossible to Rule Out:

- Open flame such as
  - welding equipment in use that week
  - tiger torches in use day of incident

## ADVICE TO MINISTER

- Metal halide lights burn (900°C) mostly all destroyed in fire
- Static electric discharges

At this time the following continue to be examined as possible ignition sources:

- Hot surfaces/friction such as motors
  - Electric arcs from motors and switches
  - Several other electrical components
- .....further testing is required of all related evidence removed from the area

Communications Contact:  
Donna Freeman  
Director, Media Relations  
Tel: 604-276-3141

Dick, Joan L LCTZ:EX

---

**From:** MacDiarmid, Margaret LCTZ:EX  
**Sent:** Wednesday, May 2, 2012 11:53 AM  
**To:** Dick, Joan L LCTZ:EX; Plant, Graham LCTZ:EX  
**Subject:** Re: From the WSBC media availability this morning

Please forward link (or <sup>s.13</sup> the report if it is easy) to Minister Bell, Bond, Thompson and MLA Rustad. Better to send report- cut and paste if it's just 3 pages.

Thanks  
Margaret

---

**From:** Dick, Joan L LCTZ:EX  
**Sent:** Wednesday, May 02, 2012 11:18 AM  
**To:** MacDiarmid, Margaret LCTZ:EX  
**Cc:** Plant, Graham LCTZ:EX  
**Subject:** From the WSBC media availability this morning

Minister:

Here is a link to the report that WSBC posted this morning pursuant to the media availability. I have printed a hard copy for you.  
J.

[http://www.worksafebc.com/news\\_room/news\\_releases/assets/nr\\_12\\_05\\_02/InvestigationUpdateBabineForestProducts.pdf](http://www.worksafebc.com/news_room/news_releases/assets/nr_12_05_02/InvestigationUpdateBabineForestProducts.pdf)

Dick, Joan L LCTZ:EX

---

**From:** MacDiarmid, Margaret LCTZ:EX  
**Sent:** Wednesday, May 2, 2012 12:15 PM  
**To:** Dick, Joan L LCTZ:EX; Plant, Graham LCTZ:EX  
**Subject:** Fwd: CP News: Dust remains possible factor in January mill explosion, but no cause yet: report

Please forward whatever we got from WorkSafe this morning to Minister Bell, please. Also to Minister Bond and to MLA Rustad.

Let me know if we didn't get anything.

Thanks,  
Margaret

Sent from my iPad

Begin forwarded message:

**From:** "Bell, Pat JTI:EX" <[Pat.Bell@gov.bc.ca](mailto:Pat.Bell@gov.bc.ca)>  
**Date:** 2 May, 2012 11:22:10 AM PDT  
**To:** "Thomson, Steve FLNR:EX" <[Steve.A.Thomson@gov.bc.ca](mailto:Steve.A.Thomson@gov.bc.ca)>, "MacDiarmid, Margaret LCTZ:EX" <[Margaret.MacDiarmid@gov.bc.ca](mailto:Margaret.MacDiarmid@gov.bc.ca)>  
**Subject:** Fw: CP News: Dust remains possible factor in January mill explosion, but no cause yet: report

Steve and Margaret

s13

Pat

**From:** [tno@gov.bc.ca](mailto:tno@gov.bc.ca) [<mailto:tno@gov.bc.ca>]  
**Sent:** Wednesday, May 02, 2012 11:15 AM  
**Subject:** CP News: Dust remains possible factor in January mill explosion, but no cause yet: report

s3

s3

TNO...

This e-mail is a service provided by Today's News Online and is only intended for the original addressee. All content is the copyrighted property of a third party creator of the material. Copying, retransmitting, redistributing, selling, licensing, or emailing the material to any third party or any employee of the Province who is not authorized to access the material is prohibited.



Dick, Joan L LCTZ:EX

---

**From:** Henderson, Kim N LCTZ:EX  
**Sent:** Thursday, May 3, 2012 7:54 AM  
**To:** Dick, Joan L LCTZ:EX; Greer, David GCPE:EX  
**Subject:**  
**Attachments:** s13

---

**From:** Ellis, Roberta [<mailto:Roberta.Ellis@worksafebc.com>]  
**Sent:** Thursday, May 03, 2012 7:51 AM  
**To:** Henderson, Kim N LCTZ:EX; Walman, Barbara J. LBR:EX; Blakely, John H LBR:EX  
**Cc:** Freeman, Donna WCB:FX  
**Subject:** s13

Could please ensure that Joan and David Greer receive this.

s13

s13

Regards

Roberta

not responsive

## CONFIDENTIALITY DISCLAIMER

The information contained in this transmission may contain privileged and confidential information of WorkSafeBC - the Workers' Compensation Board. It is intended for review only by the person(s) named above. Dissemination, distribution or duplication of this communication is strictly prohibited by all recipients unless expressly authorized otherwise. If you are not the intended recipient, please contact the sender by reply email and destroy all copies of the original message. Thank you.

Pages 240 through 253 redacted for the following reasons:

-----

not responsive

Dick, Joan L LCTZ:EX

---

**From:** Freeman, Donna [Donna.Freeman@worksafebc.com]  
**Sent:** Thursday, May 3, 2012 5:02 PM  
**To:** Greer, David GCPE:EX; Dick, Joan L LCTZ:EX  
**Subject:** Red tape and sawdust, two views of B.C. workplace safety - The Globe and Mail

<http://www.theglobeandmail.com/news/politics/red-tape-and-sawdust-two-views-of-bc-workplace-safety/article2422081/>

Dick, Joan L LCTZ:EX

---

**From:** Henderson, Kim N LCTZ:EX  
**Sent:** Friday, May 4, 2012 2:09 PM  
**To:** morfitts@telus.net; hert@bcforestsafe.org; Anderson, David WCB:EX; shunt@usw.ca; mauch@cofi.org; lineen@bcforestsafe.org; allan@cofi.org; Matters, Bob  
**Cc:** Pirs, Betty WCB:EX; Walman, Barbara J. LBR:EX; Dick, Joan L LCTZ:EX  
**Subject:** Summary of Progress

First, I would like to take the opportunity to thank each of you for your continued commitment to worker safety and to working together on this very challenging issue. Minister MacDiarmid is most appreciative of your engagement and participation and also welcomes the BC Safety Authority to the table.

It was requested that we circulate a summary of actions to keep folks informed of progress since the Minister's meeting with all of you last week. Following is a summary. I'd be pleased to hear any comments or additions that you might have.

1. As I think you will all be aware, WorkSafeBC (Donna Wilson) hosted a meeting on Wednesday morning to share with the union, industry, and employer representatives what could be shared from the Babine investigation. Jeff Dolan presented and shared a document outlining the investigation update. The meeting principally focused on what evidence WSBC has. There is no evidence to suggest the fuel and ignition sources as well as what is still being pursued – which is what the Minister stressed and the meeting participants agreed would be most helpful. Given the investigation is still active, it may not have been as much information as everyone might have hoped for but it answered questions and provided an opportunity to ask questions, make suggestions and clarify issues and concerns. After the Wednesday meeting Roberta Ellis met with the media on the above noted document and provided them with as much information as possible on the activities and investigation of the Babine mill.
2. WorkSafeBC assigned Director of Industry Services, Dale Walker, to facilitate the working group that will undertake the collection of best practices from the industry. The first meeting occurred on April 30th. The first collation of best practices will be up on the WorkSafeBC website (worksafebc.com) by the end of today – many thanks to all the Working Group members for responding so quickly. As a result of Wednesday's meeting, he has also been asked to take on the task of facilitating/supporting the Working Group in developing a communication process/plan as well as sharing with this committee the Working Group Meeting plans, and updates on a regular basis. This will include sharing of activities such as research underway, as an example.
3. You will also be aware that a Joint Industry Communique on Mill Safety was released on Thursday. [www.canfor.com](http://www.canfor.com)<<http://www.canfor.com/>
4. WorkSafeBC has the Directive Order on its website. The website has a specific sawmill site – there are four areas where industry, labour, media and the public can search: Inspections; Investigations; Industry Resources; and Media Updates. Officer inspections began on May 1st.
5. As noted above, the Working Group's industry best practices should be ready for posting by end of day today. A process for posting regular status updates with respect to inspections and orders is being developed now.

Kim Henderson  
Deputy Minister  
Labour, Citizens' Services and Open Government

Dick, Joan L LCTZ:EX

---

From: Henderson, Kim N LCTZ:EX  
Sent: Friday, May 4, 2012 3:01 PM  
To: Dick, Joan L LCTZ:EX  
Cc: Taylor, Diane Ruth LCTZ:EX  
Subject: Re: s13

Will do.

On 2012-05-04, at 2:24 PM, "Dick, Joan L LCTZ:EX" <[Joan.Dick@gov.bc.ca](mailto:Joan.Dick@gov.bc.ca)> wrote:

Kim:

s13

Thanks,

J.



Dick, Joan L LCTZ:EX

---

**From:** Freeman, Donna [Donna.Freeman@worksafebc.com]  
**Sent:** Tuesday, May 8, 2012 9:10 AM  
**To:** Greer, David GCPE:EX; Dick, Joan L LCTZ:EX  
**Subject:** Fwd: Safety Order for Electrical Equipment in Sawmills  
**Attachments:** Safety Order Sawmills R4.pdf; ATT00001.htm; Safety Order Sawmills response form R2.pdf; ATT00002.htm; Directive\_\_Electrical Operating Permit.pdf; ATT00003.htm; Directive\_\_Electrical Incident Reporting Requirements.pdf; ATT00004.htm

Sent from my iPhone

Begin forwarded message:

not responsive

not responsive

not responsive

s17, s22



## SAFETY ORDER

No: SO-E3 2012-01

### ELECTRICAL EQUIPMENT LOCATED IN SAWMILLS

**Date of Issue: 8<sup>th</sup> May, 2012**

*This safety order is issued pursuant to section 31 of the Safety Standards Act. A person affected by this safety order may appeal this order in writing to the Safety Standards Appeal Board within 30 days. The appeal process is set out on the Safety Standards Appeal Board's website at <http://www.housing.gov.bc.ca/ssab/>. This order may not be stayed during an appeal.*

*Failure to comply with a safety order is an offence under section 72 of the Safety Standards Act.*

#### Introduction

This safety order is being issued to owners and operators of sawmills utilizing electrical equipment. Electrical equipment is a regulated product under the *Safety Standards Act*.

In the past 3 months explosions and fires at two sawmills in British Columbia have resulted in fatalities and serious injuries to workers. Previous incidents have also been identified in which wood dust has been ignited by electrical equipment.

Although the investigations into the two recent fatal incidents are ongoing and the causes of those incidents have not been identified, this Safety Order is aimed at minimizing the risk of fire or explosion related to regulated electrical equipment being a potential combustion or ignition source in wood processing operations.

#### Required Actions

Any owner or operator of a wood processing facility will take the following actions at any facility under its direction or control as soon as practicable:

1. Verify that a valid operating permit is in place for the operation and maintenance of electrical equipment located at sites with a supply service at a voltage greater than 750 V or a combined electrical service capacity in excess of 250 kVA. Directive D-E3 070801 7 Electrical Operating Permit Requirements provides further details on requirements for electrical operating permits.
2. Develop a process to report incidents involving electrical equipment or electrical work. Directive D-E3 070115 1 Incident Reporting Requirements With Respect To Electrical Technology provides further details on requirements for incident reporting.
3. Report any incidents that have occurred since 1<sup>st</sup> January 2010 and that meet the reporting criteria of Directive D-E3 070115 1 Incident Reporting Requirements With Respect To Electrical Technology and that have not been previously reported.



## SAFETY ORDER

No: SO-E3 2012-01

4. Verify that the interior of enclosures of electrical motor control centres, power distribution centres, or similar switchgear are clear and free of known or potential combustible or explosive materials such as wood dust.
5. Verify that electrical cabinet doors and access covers for energized electrical equipment are closed and secured with all fasteners in place and that a process is in place to keep such fasteners closed and secure.
6. Verify that ventilation systems for electrical equipment enclosures are clean, working properly and installed in accordance with the equipment manufacturer's instructions and that a process is in place to keep such systems clean and functional.
7. Submit a completed copy of the attached Safety Order Response Form to the BC Safety Authority no later than 13<sup>th</sup> July 2012.

If you have any questions regarding this safety order, please contact your local electrical safety officer through the BC Safety Authority call centre by phone at 1.866.566.7233 or by email at [info@safetyauthority.ca](mailto:info@safetyauthority.ca).

Stephen Hinde, PEng

Provincial Safety Manager - Electrical

### References:

SBC 2003, c. 39      Safety Standards Act  
B.C. Reg. 105/2004   Safety Standards General Regulation  
B.C. Reg. 100/2004   Electrical Safety Regulation  
D-E3 070801 7        Electrical Operating Permit Requirements  
D-E3 070115 1        Incident Reporting Requirements With Respect To Electrical Technology



## DIRECTIVE

**No: D-E3 070801 7**

THIS DIRECTIVE SUPERCEDES DIRECTIVES:  
D-E3 040806 3, D-E3 040806 4, D-E3 040806 5, D-E3 040806 6

### ELECTRICAL OPERATING PERMIT REQUIREMENTS

*This Directive is being issued by a provincial safety manager pursuant to section 30 of the Safety Standards Act. Stakeholders should consult with local authorities having jurisdiction prior to undertaking work, to determine local requirements.*

**Date of Issue:** 1<sup>st</sup> August, 2007

#### **Scope**

This Directive clarifies provisions of Sections 17 & 18 of the Safety Standards General Regulation and Section 14 of the Electrical Safety Regulation with regard to Operating Permit Requirements for the operation or maintenance of regulated electrical equipment.

#### **Operating Permit Requirements**

##### **A. Operation:**

Section 18(1)(b) of the Safety Standards General Regulation specifies that an operating permit is required to operate a regulated product. An operating permit shall be obtained if;

- 1) the supply is > 250 kVA;
- 2) the supply is > 750 V when privately owned, (high voltage for neon signs is exempt from this requirement);
- 3) the installation is for a temporary entertainment site where an installation permit has not been obtained; or
- 4) required by an Electrical Safety Officer.

##### **B. Maintenance**

The British Columbia Electrical Code establishes the requirements for the maintenance of electrical equipment. The basic requirement of Rule 2-300(1) provides that all electrical equipment must be kept in safe and proper operating condition. In order to meet this requirement it is necessary that regular maintenance of operating electrical equipment be undertaken.

For the purpose of this Directive, the term "maintenance" may also include;

- 1) replacement of existing equipment with equipment intended to perform the same function, and
- 2) installation, relocation and alteration of electrical equipment, subject to the restrictions set out in paragraph C below.



### ***C. Minor installations under Operating Permits***

Installations may be performed under an operating permit provided that;

- 1) additional loads, or additional distribution capacity, is only added to **existing** plant structures, systems, and assemblies;
- 2) the existing main service is rated at 250 kVA or less and the additional load or capacity, per installation, does not exceed 12.5 kVA;
- 3) the main service is rated over 250 kVA and the additional load, per installation, does not exceed 36 kVA and; and
- 4) the work does not result in a change in the main service capacity.

All other installations require an installation permit.

### ***D. Obtaining an Electrical Operating Permit***

Electrical operating permits may be obtained by either the owner of the electrical equipment or the owner of the building where the electrical equipment is being maintained. When applying for an electrical operating permit the owner must, in accordance with Section 14 of the Electrical Safety Regulation specify:

- 1) the name of the Field Safety Representative (FSR) who will be responsible for the maintenance;
- 2) the class and certificate of qualification number of the FSR; and
- 3) renewals must include a declaration of compliance which has been signed by the FSR.

Note: When the owner specifies an employee as the FSR, that employee may be named on multiple operating permits for the same owner but may not represent more than one owner on operating permits. When a licensed electrical contractor has been engaged by the owner to be responsible for the operating permit, the designated FSR may be named on multiple operating permits for multiple owners, provided that it is reasonable for that FSR to be responsible for all the work involved.

As defined in Section 1 of the Safety Standards Act, "owner" includes a lessee.

Stephen Hinde  
Provincial Electrical Safety Manager  
British Columbia Safety Authority



## Relevant Legislation

### Safety Standards General Regulation

#### Installation permits

- 17 (1) An installation permit is required to install or alter a regulated product.
- (2) An installation permit may be issued to any of the following:
- (a) a licensed contractor;
  - (b) a person who holds an operating permit;
  - (c) an owner of a regulated product;
  - (d) a homeowner who performs regulated work as permitted under the regulations.
- (3) Unless exempted by the regulations, an application for an installation permit must contain the name, certificate of qualification number and class of certificate of qualification of the field safety representative.
- (4) To issue an installation permit a safety officer may require a bond.

#### Operating permits

- 18 (1) A person must have an operating permit to do any of the following:
- (a) operate a regulated product;
  - (b) maintain a regulated product.
- (2) An operating permit may be issued to any of the following:
- (a) an owner of a regulated product;
  - (b) the owner of a building or other premises where regulated work is to be performed.





### **Responsibilities of operating permit holder**

**19** The holder of an operating permit must do all of the following:

- (a) if required under the permit, maintain a log of work performed under the permit;
- (b) in the case of a multi-year operating permit, pay any required installments of the permit fee;
- (c) submit any required declaration confirming compliance with the Act;
- (d) if a field safety representative is named in the permit, immediately notify the regulatory authority if the field safety representative ceases to be contracted or employed by the permit holder.

### **Electrical Safety Regulation**

#### **Operating permit**

**14** If electrical maintenance is performed on a building or premises, the application for the operating permit must include the name, class and certificate of qualification number of the field safety representative who will perform or supervise the regulated work under the permit.

For more information, contact your local Safety Officer or visit our website at:

**[www.safetyauthority.ca](http://www.safetyauthority.ca)**



## SAFETY ORDER RESPONSE FORM

Safety Order No: SO-E3 2012-01

*The information on this form is collected to administer the provisions of the Safety Standards Act. If you have questions about the collection, use or disclosure of this information, contact the Records, Information and Privacy Analyst at 1-866-566-SAFE (7233).*

The company and/or designated representative in receipt of a safety order must fill out and submit this form to the British Columbia Safety Authority within the timeframe stipulated on the safety order.

The following items have been completed as required in the above safety order:

### YES

- ☐ Verify that a valid operating permit is in place for the operation and maintenance of electrical equipment located at sites with a supply service at a voltage greater than 750 V or a combined electrical service capacity in excess of 250 kVA. Directive D-E3 070801 7 Electrical Operating Permit Requirements provides further details on requirements for electrical operating permits.
- ☐ Develop a process to report incidents involving electrical equipment or electrical work. Directive D-E3 070115 1 Incident Reporting Requirements With Respect To Electrical Technology provides further details on requirements for incident reporting.
- ☐ Report any incidents that have occurred since 1<sup>st</sup> January 2010 and that meet the reporting criteria of Directive D-E3 070115 1 Incident Reporting Requirements With Respect To Electrical Technology and that have not been previously reported.
- ☐ Verify that the interior of enclosures of electrical motor control centres, power distribution centres, or similar switchgear are clear and free of known or potential combustible or explosive materials such as wood dust.
- ☐ Verify that electrical cabinet doors and access covers for energized electrical equipment are closed and secured with all fasteners in place and that a process is in place to keep such fasteners closed and secure.
- ☐ Verify that ventilation systems for electrical equipment enclosures are clean, working properly and installed in accordance with the equipment manufacturer's instructions and that a process is in place to keep such systems clean and functional.
- ☐ Submit a completed copy of this Safety Order Response Form to the BC Safety Authority **no later than 13<sup>th</sup> July 2012.**



## SAFETY ORDER RESPONSE FORM

Safety Order No: SO-E3 2012-01

Completion Date: \_\_\_\_\_  
Month Day Year

Operating Company: \_\_\_\_\_

Person signifying completion  
of safety order requirements: \_\_\_\_\_  
(Please print name)

Position Title: \_\_\_\_\_

Signature: \_\_\_\_\_

Return this form to:

TBD



## DIRECTIVE

No: D-E3 070115 1  
Revision: 03

### INCIDENT REPORTING REQUIREMENTS WITH RESPECT TO ELECTRICAL TECHNOLOGY

*This Directive is being issued by a provincial safety manager pursuant to section 30 of the Safety Standards Act.*

**Date of Issue:** January 26, 2011

#### General Details

This Directive is being issued to businesses and contractors to clarify the reporting of incidents. It is issued with respect to the requirements of section 36 and 37 of the *Safety Standards Act* and section 34 of the *Safety Standards General Regulation*.

Incidents involving electrical technology, which occur within the following jurisdictions, can be reported directly to the appropriate municipality:

- |                              |              |
|------------------------------|--------------|
| • Burnaby                    | 604-294-7944 |
| • Maple Ridge                | 604-463-5221 |
| • North Vancouver (City)     | 604-985-7761 |
| • North Vancouver (District) | 604-990-2311 |
| • Surrey                     | 604-591-4011 |
| • Vancouver                  | 604-873-7011 |
| • Victoria                   | 250-385-5711 |
| • West Vancouver             | 604-925-7000 |

#### Specific Details

##### A. Reporting of Incidents to the British Columbia Safety Authority

An incident is an event involving technology regulated by the BCSA that:

- results in death, injury, or damage to property and/or regulated equipment, or
- did not involve death, injury, or damage to property and/or equipment but under similar circumstances is highly likely to result in death, injury, or damage to property and/or regulated equipment.

Persons in charge of regulated work, owners of regulated products, permit holders, persons who perform regulated work, and persons who operate a regulated product or system are required to report incidents. Incidents must be reported to the British Columbia Safety Authority (BCSA) within 24 hours of occurrence by one of the following methods:

##### All Incidents (Levels, I, II & III)

##### *Telephone*

- Call 1-866-566-7233 (toll free 24 hrs.)



**For Minor Incidents Only (Level III)**

*Online*

- Complete and submit the Incident Reporting Form on the BCSA website ([www.safetyauthority.ca](http://www.safetyauthority.ca))

*Telephone*

- Call **1-866-566-7233** (toll free 24 hrs.)

**B. Levels Of Incidents**

Incidents range in severity from major (Level I) to minor (Level III). For the purposes of this Directive, incidents are categorized as follows:

**Level I – Must be Reported Immediately by Telephone**

- Fatality or life threatening injury involved with the operation, installation, testing, modification, or use of the equipment.
- The injured person(s) involved requires emergency medical attention (hospitalization). This includes, but is not limited to, major blood loss, loss of limbs, loss of an eye, unconsciousness.
- Catastrophic damage (total loss) to property and/or equipment.
- Estimated damages are in excess of \$500,000
- Injuries resulting from contact with electrical equipment operating at greater than 750 volts.
- Fire and/or explosion resulting from electrical equipment operating at greater than 750 volts.
- Near miss – no death, injury requiring emergency medical attention, or catastrophic damage to property and/or equipment occur but under similar circumstance is highly likely to occur.
- Events requiring evacuation of employees and/or the general public from the premises or general vicinity

**Level II – Must be Reported Immediately by Telephone**

- The injured person(s) involved requires professional medical attention. This includes, but is not limited to, fractures, mild burns, and shocks.
- Extensive damage to property and/or equipment.
- Estimated damages are between \$50,000 and 500,000
- Injuries resulting from contact with electrical equipment operating between 31 volts and 750 volts.
- Fire and/or explosion resulting from electrical equipment operating between 31 volts and 750 volts.
- Near miss – no injury requiring professional medical attention, or extensive damage to property and/or equipment occur but under similar circumstance is highly likely to occur.



**Level III – Must be Reported within 24 hours by Telephone or Online**

- The injured person(s) involved a minor injury (example: superficial cuts, bruises) and does not require first aid or professional medical treatment.
- Minor damage to property and/or equipment
- Estimated damages to property and/or equipment is up to \$50,000
- Injuries resulting from contact with electrical equipment operating at 30 volts or less.
- Fire and/or explosion resulting from electrical equipment operating at 30 volts or less.
- Near miss – no minor injury, or minor damages to property and/or equipment occur but under similar circumstance is highly likely to occur

A handwritten signature in cursive script that reads "Stephen Hinde".

Stephen Hinde  
Provincial Safety Manager, Electrical

**References:**

Bill 19 – 2003      Safety Standards Act  
B.C. Reg. 105/2004      Safety Standards General Regulation

For more information on the British Columbia Safety Authority, please visit our web site at:  
[www.safetyauthority.ca](http://www.safetyauthority.ca)

Dick, Joan L LCTZ:EX

---

**From:** Freeman, Donna [Donna.Freeman@worksafebc.com]  
**Sent:** Tuesday, May 8, 2012 9:19 AM  
**To:** Greer, David GCPE:EX; Dick, Joan L LCTZ:EX  
**Subject:** Fwd: Safety Order and News Release from BC Safety Authority  
**Attachments:** Safety Order Sawmills R4.pdf; ATT00001.htm; Safety Order Sawmills response form R2.pdf; ATT00002.htm; News Release - Safety Order to Mills - Final.pdf; ATT00003.htm

Includes news release from BCSA.

Sent from my iPhone

not responsive

not responsive





## SAFETY ORDER

No: SO-E3 2012-01

### ELECTRICAL EQUIPMENT LOCATED IN SAWMILLS

**Date of Issue: 8<sup>th</sup> May, 2012**

*This safety order is issued pursuant to section 31 of the Safety Standards Act. A person affected by this safety order may appeal this order in writing to the Safety Standards Appeal Board within 30 days. The appeal process is set out on the Safety Standards Appeal Board's website at <http://www.housing.gov.bc.ca/ssab/>. This order may not be stayed during an appeal.*

*Failure to comply with a safety order is an offence under section 72 of the Safety Standards Act.*

#### Introduction

This safety order is being issued to owners and operators of sawmills utilizing electrical equipment. Electrical equipment is a regulated product under the *Safety Standards Act*.

In the past 3 months explosions and fires at two sawmills in British Columbia have resulted in fatalities and serious injuries to workers. Previous incidents have also been identified in which wood dust has been ignited by electrical equipment.

Although the investigations into the two recent fatal incidents are ongoing and the causes of those incidents have not been identified, this Safety Order is aimed at minimizing the risk of fire or explosion related to regulated electrical equipment being a potential combustion or ignition source in wood processing operations.

#### Required Actions

Any owner or operator of a wood processing facility will take the following actions at any facility under its direction or control as soon as practicable:

1. Verify that a valid operating permit is in place for the operation and maintenance of electrical equipment located at sites with a supply service at a voltage greater than 750 V or a combined electrical service capacity in excess of 250 kVA. Directive D-E3 070801 7 Electrical Operating Permit Requirements provides further details on requirements for electrical operating permits.
2. Develop a process to report incidents involving electrical equipment or electrical work. Directive D-E3 070115 1 Incident Reporting Requirements With Respect To Electrical Technology provides further details on requirements for incident reporting.
3. Report any incidents that have occurred since 1<sup>st</sup> January 2010 and that meet the reporting criteria of Directive D-E3 070115 1 Incident Reporting Requirements With Respect To Electrical Technology and that have not been previously reported.



## SAFETY ORDER

No: SO-E3 2012-01

4. Verify that the interior of enclosures of electrical motor control centres, power distribution centres, or similar switchgear are clear and free of known or potential combustible or explosive materials such as wood dust.
5. Verify that electrical cabinet doors and access covers for energized electrical equipment are closed and secured with all fasteners in place and that a process is in place to keep such fasteners closed and secure.
6. Verify that ventilation systems for electrical equipment enclosures are clean, working properly and installed in accordance with the equipment manufacturer's instructions and that a process is in place to keep such systems clean and functional.
7. Submit a completed copy of the attached Safety Order Response Form to the BC Safety Authority no later than 13<sup>th</sup> July 2012.

If you have any questions regarding this safety order, please contact your local electrical safety officer through the BC Safety Authority call centre by phone at 1.866.566.7233 or by email at [info@safetyauthority.ca](mailto:info@safetyauthority.ca).

A handwritten signature in black ink that reads "Stephen Hinde".

Stephen Hinde, PEng

Provincial Safety Manager - Electrical

### References:

<u>SBC 2003, c. 39</u>	<u>Safety Standards Act</u>
<u>B.C. Reg. 105/2004</u>	<u>Safety Standards General Regulation</u>
<u>B.C. Reg. 100/2004</u>	<u>Electrical Safety Regulation</u>
<u>D-E3 070801 7</u>	<u>Electrical Operating Permit Requirements</u>
<u>D-E3 070115 1</u>	<u>Incident Reporting Requirements With Respect To Electrical Technology</u>



## SAFETY ORDER RESPONSE FORM

Safety Order No: SO-E3 2012-01

*The information on this form is collected to administer the provisions of the Safety Standards Act. If you have questions about the collection, use or disclosure of this information, contact the Records, Information and Privacy Analyst at 1-866-566-SAFE (7233).*

The company and/or designated representative in receipt of a safety order must fill out and submit this form to the British Columbia Safety Authority within the timeframe stipulated on the safety order.

The following items have been completed as required in the above safety order:

### YES

- ☐ Verify that a valid operating permit is in place for the operation and maintenance of electrical equipment located at sites with a supply service at a voltage greater than 750 V or a combined electrical service capacity in excess of 250 kVA. Directive D-E3 070801 7 Electrical Operating Permit Requirements provides further details on requirements for electrical operating permits.
- ☐ Develop a process to report incidents involving electrical equipment or electrical work. Directive D-E3 070115 1 Incident Reporting Requirements With Respect To Electrical Technology provides further details on requirements for incident reporting.
- ☐ Report any incidents that have occurred since 1<sup>st</sup> January 2010 and that meet the reporting criteria of Directive D-E3 070115 1 Incident Reporting Requirements With Respect To Electrical Technology and that have not been previously reported.
- ☐ Verify that the interior of enclosures of electrical motor control centres, power distribution centres, or similar switchgear are clear and free of known or potential combustible or explosive materials such as wood dust.
- ☐ Verify that electrical cabinet doors and access covers for energized electrical equipment are closed and secured with all fasteners in place and that a process is in place to keep such fasteners closed and secure.
- ☐ Verify that ventilation systems for electrical equipment enclosures are clean, working properly and installed in accordance with the equipment manufacturer's instructions and that a process is in place to keep such systems clean and functional.
- ☐ Submit a completed copy of this Safety Order Response Form to the BC Safety Authority **no later than 13<sup>th</sup> July 2012.**



## SAFETY ORDER RESPONSE FORM

Safety Order No: SO-E3 2012-01

Completion Date: \_\_\_\_\_  
Month / Day / Year

Operating Company: \_\_\_\_\_

Person signifying completion  
of safety order requirements: \_\_\_\_\_  
(Please print name)

Position Title: \_\_\_\_\_

Signature: \_\_\_\_\_

Return this form to:

TBD



Do it right. Stay safe.

### **BC Safety Authority issues Safety Order related to electrical equipment located in sawmills**

The BC Safety Authority (BCSA) today issued a safety order relating to regulated electrical equipment ordering sawmills to verify that they have valid operating permits in place, that proper maintenance procedures are being carried out, and that incidents are being reported as per existing BCSA directives.

This measure is precautionary and part of the BCSA's ongoing investigation into the recent explosions and resulting fires at two BC sawmills that resulted in fatalities and serious injuries to workers. This safety order supports a directive order issued last week by WorkSafeBC.

Stephen Hinde, Electrical Safety Manager at the BCSA, issued the safety order as a precautionary measure to be acted upon without delay. "Although the investigations into the two recent fatal incidents are ongoing and the causes of those incidents have not been identified, this safety order is aimed at minimizing the risk of fire or explosion related to regulated electrical equipment being a potential combustion or ignition source in wood processing operations."

Hinde explained further, "Electrical equipment is used throughout sawmills and during normal operation can create heat and electrical sparks. This could act as an ignition source for a fire or explosion, so it's important that mills ensure they are following the *Safety Standards Act*."

While this safety order is specific to owners and operators of sawmills around electrical equipment, other regulated technologies are also still under investigation at Babine Forest Products, including propane and natural gas. The BCSA is not yet prepared to rule out propane or natural gas as either an ignition or fuel source at Babine while the investigation is ongoing.

The investigation related to the Babine incident is currently in the analysis phase with no predetermined end date. A BCSA team is currently supporting the Lakeland investigation, which is in the information gathering stage. In both the Babine Forest Products and Lakeland Mills investigation, WorkSafe BC has taken the lead on site control and incident investigation.

As well as issuing this safety order, the following precautionary measures have been taken by the BCSA since the explosion at Babine in January:

- Beginning in February, gas safety officers with the BCSA conducted assessments of gas operating permits in sawmills and industrial sites across BC. This action was taken to verify valid permits, and check technical elements of the gas equipment. This review did not identify any systemic concerns.
- In early April, electrical safety officers with the BCSA began to conduct a survey of electrical operating permits at a select group of wood processing plants to assess the safety of regulated electrical equipment and the effectiveness of mandated electrical maintenance programs. It is anticipated this work will be complete in May.

Supplementing the general workplace safety measures ordered by WorkSafeBC, the following items are prescribed in the BCSA safety order (the full and complete text can be found at [www.safetyauthority.ca](http://www.safetyauthority.ca) under *Industry Alerts*.) which applies specifically to regulated electrical equipment:

1. Verify that a valid operating permit is in place.
2. Develop a process to report incidents involving electrical equipment or electrical work.
3. Report any incidents that have occurred since Jan.1, 2010 and that have not been previously reported.
4. Verify that the interior of enclosures of electrical motor control centres, power distribution centres, or similar switchgear are clear and free of known or potential combustible or explosive materials such as wood dust.
5. Verify that electrical cabinet doors and access covers for energized electrical equipment are closed and secured.
6. Verify that ventilation systems for electrical equipment enclosures are clean, working properly and installed in accordance with the equipment manufacturer's instructions.
7. Submit a completed copy of the attached Safety Order Response Form to the BC Safety Authority no later than July 13, 2012.

The BC Safety Authority keeps people safe by promoting the safe installation and use of technical equipment. The Safety Authority also issues permits and licences, educates, and conducts on-site inspections in high-risk situations.

Media Relations  
BC Safety Authority  
778-396-2164

[media@safetyauthority.ca](mailto:media@safetyauthority.ca)

Sign up to receive an email alert when BC Safety Authority news is released. Go to  
(<http://www.safetyauthority.ca/user/register>).

Dick, Joan L LCTZ:EX

---

**From:** Woodley, Lita [Lita.Woodley@worksafebc.com]  
**Sent:** Thursday, May 10, 2012 2:24 PM  
**To:** Greer, David GCPE:EX; Dick, Joan L LCTZ:EX  
**Cc:** Walman, Barbara J. LBR:EX  
**Subject:** Sawmill Orders - Summary Report  
**Attachments:** Sawmills Inspections - Interior-North.xlsx  
  
**Importance:** High

Hi David and Joan;

Donna Freeman is at the Inquest all week and asked that we send this to you. Please find attached a summary report on the inspection orders for sawmills in the Interior/North during the period between the explosions/fires at the Babine Lake and Lakeland mills.

Joanne McConnachie  
Executive Director, Executive Operations  
WorkSafeBC  
Phone: (604) 231-8425  
Email: [Joanne.McConnachie@worksafebc.com](mailto:Joanne.McConnachie@worksafebc.com)

#### CONFIDENTIALITY DISCLAIMER

The information contained in this transmission may contain privileged and confidential information of WorkSafeBC - the Workers' Compensation Board. It is intended for review only by the person(s) named above. Dissemination, distribution or duplication of this communication is strictly prohibited by all recipients unless expressly authorized otherwise. If you are not the intended recipient, please contact the sender by reply email and destroy all copies of the original message. Thank you.



Dick, Joan L LCTZ:EX

---

**From:** Freeman, Donna [Donna.Freeman@worksafebc.com]  
**Sent:** Thursday, May 10, 2012 3:12 PM  
**To:** Dick, Joan L LCTZ:EX  
**Subject:** Fwd: Emailing: SawmillOrders.pdf  
**Attachments:** SawmillOrders.pdf; ATT00001.htm

This is the status report of the directive order follow up. It is to be posted tomorrow but is not yet public. You will note that of the 346 or so sawmills registered, only 176 or so are operational ( my numbers sre approximate-i do not have the numbers with me).

Sent from my iPhone

not responsive



# Orders Issued Under Combustible Dust Strategy

Run Date: May 09, 2012  
Period End Date: May 09, 2012

WORKING TO MAKE A DIFFERENCE

IR's issued on or after April 24, 2012

<u>Employer Legal Name</u>	<u>Op Loc</u>	<u>Initiating / Directive Order Issued</u>	<u>Follow-up Site Visit Conducted</u>	<u>Initiating / Directive Order Status</u>
<b>Region: NORTH SHORE</b>				
A J FOREST PRODUCTS LTD	001	2012/04/26	Yes	Outstanding
TERAZEL LANDS LIMITED	001	2012/04/26	Yes	Outstanding
<b>Region: RICHMOND/VANCOUVER/DELTA</b>				
DELTA CEDAR SERVICES LTD.	001	2012/04/26	Yes	Outstanding
INTERNATIONAL FOREST PRODUCTS LIMITED	003	2012/04/26	Yes	Outstanding
GOLDWOOD INDUSTRIES LTD	001	2012/04/26	Yes	Outstanding
TERMINAL FOREST PRODUCTS LTD	001	2012/04/26	Yes	Outstanding
TERMINAL FOREST PRODUCTS LTD	003	2012/04/26	Yes	Outstanding
<b>Region: SURREY</b>				
S & R SAWMILLS LTD	001	2012/04/25	No	Outstanding
S & R SAWMILLS LTD	004	2012/04/26	Yes	Outstanding
S & R SAWMILLS LTD	007	2012/04/26	Yes	Outstanding
S & R SAWMILLS LTD	008	2012/04/26	No	Outstanding
S & R SAWMILLS LTD	009	2012/04/26	Yes	Outstanding
TEAL CEDAR PRODUCTS LTD & COLUMBIA RIVER SHAKE & SHINGLE LTD	002	2012/04/26	Yes	Outstanding
TEAL CEDAR PRODUCTS LTD & COLUMBIA RIVER SHAKE & SHINGLE LTD	003	2012/04/26	No	Outstanding
TEAL CEDAR PRODUCTS LTD & COLUMBIA RIVER SHAKE & SHINGLE LTD	011	2012/04/26	No	Outstanding
<b>Region: ABBOTSFORD</b>				
BRUNO LAMPART	001	2012/04/26	No	Outstanding
SHANNON LUMBER LIMITED	001	2012/04/26	Yes	Outstanding
DAVID HORN	001	2012/04/26	Yes	Outstanding
EVERWOOD INDUSTRIES LTD	001	2012/04/26	No	Outstanding
PACIFIC COAST TIMBER INC	001	2012/04/26	Yes	Outstanding
VERNER POULSEN	001	2012/04/26	No	Outstanding
SQUARELOG LUMBER CORP	001	2012/04/26	No	Outstanding
RODNEY PARSEY	001	2012/04/26	No	Outstanding
IVOR FOREST PRODUCTS LTD	001	2012/04/26	Yes	Outstanding
RPN SYSTEMS LTD	001	2012/04/26	No	Outstanding
BASTIAAN NEELS	001	2012/04/26	No	Outstanding

**Orders Issued Under Combustible Dust Strategy**Run Date: May 09, 2012  
Period End Date: May 09, 2012

IR's issued on or after April 24, 2012

<u>Employer Legal Name</u>	<u>Op Loc</u>	<u>Initiating / Directive Order Issued</u>	<u>Follow-up Site Visit Conducted</u>	<u>Initiating / Directive Order Status</u>
<b>Region: PRINCE GEORGE</b>				
CANADIAN FOREST PRODUCTS LTD	022	2012/04/25	No	Outstanding
CANADIAN FOREST PRODUCTS LTD	027	2012/04/25	Yes	Outstanding
CANADIAN FOREST PRODUCTS LTD	037	2012/04/25	Yes	Outstanding
CANADIAN FOREST PRODUCTS LTD	043	2012/04/25	Yes	Outstanding
CANADIAN FOREST PRODUCTS LTD	061	2012/04/25	Yes	Outstanding
CANADIAN FOREST PRODUCTS LTD	065	2012/04/25	No	Outstanding
CANADIAN FOREST PRODUCTS LTD	066	2012/04/25	Yes	Outstanding
LAKELAND MILLS LTD	001	2012/04/26	No	Outstanding
DUNKLEY LUMBER LTD	001	2012/04/26	No	Outstanding
CARRIER LUMBER LTD	001	2012/04/25	Yes	Outstanding
DECKER LAKE FOREST PRODUCTS LTD	001	2012/04/25	Yes	Outstanding
APOLLO FOREST PRODUCTS LTD	001	2012/04/25	Yes	Outstanding
L & M LUMBER LTD	001	2012/04/25	Yes	Outstanding
M & K SAWMILL LTD	002	2012/04/25	No	Outstanding
BABINE FOREST PRODUCTS LIMITED	001	2012/04/25	Yes	Outstanding
LEONARD MCCARTY	001	2012/04/25	Yes	Outstanding
SHERATON HOLDINGS LTD	001	2012/04/25	No	Outstanding
R 391 ENTERPRISES LTD	001	2012/04/25	No	Outstanding
HEARTLANDS FOREST PRODUCTS INC.	001	2012/04/25	No	Outstanding
WEST FRASER MILLS LTD	003	2012/04/25	Yes	Outstanding
WEST FRASER MILLS LTD	004	2012/04/25	No	Outstanding
WEST FRASER MILLS LTD	011	2012/04/25	Yes	Outstanding
WEST FRASER MILLS LTD	017	2012/04/25	Yes	No Longer in Operation at Location
TOLKO INDUSTRIES LTD	001	2012/04/25	Yes	Outstanding
NORTHERN INTERIOR FOREST PRODUCTS LTD.	001	2012/04/25	No	Outstanding
CONIFEX INC	001	2012/04/25	Yes	Outstanding
CONIFEX MACKENZIE FOREST PRODUCTS INC	001	2012/04/25	Yes	Outstanding
TREECO TIMBER CORP	002	2012/04/25	No	Outstanding
<b>Region: FORT ST. JOHN</b>				
CANADIAN FOREST PRODUCTS LTD	019	2012/04/26	Yes	Outstanding
CANADIAN FOREST PRODUCTS LTD	024	2012/04/26	Yes	Outstanding

<u>Employer Legal Name</u>	<u>Op Loc</u>	<u>Initiating / Directive Order Issued</u>	<u>Follow-up Site Visit Conducted</u>	<u>Initiating / Directive Order Status</u>
WEST FRASER MILLS LTD	006	2012/04/26	Yes	Outstanding
<b>Region: TERRACE</b>				
CANADIAN FOREST PRODUCTS LTD	038	2012/04/25	Yes	Outstanding
ABFAM ENTERPRISES LTD	001	2012/04/25	Yes	Outstanding
HUNKY DORY SAWMILLS LTD	001	2012/04/25	Yes	Outstanding
SWIS WOOD PRODUCTS LTD	001	2012/04/25	No	Outstanding
DAVID LESLIE WEST	001	2012/04/25	No	Outstanding
WEST FRASER MILLS LTD	013	2012/04/26	Yes	Outstanding
KERMODEI SAWMILLS LIMITED	001	2012/04/25	No	Outstanding
LAKE DRIVE LUMBER LTD	001	2012/04/25	No	Outstanding
<b>Region: KELOWNA</b>				
GORMAN BROS. LUMBER LTD.	001	2012/04/25	Yes	Outstanding
SCHAPOL LOGGING LTD	001	2012/04/26	No	Outstanding
ROUCK BROS SAWMILL LTD	001	2012/04/26	No	Outstanding
GREENWOOD FOREST PRODUCTS (1983) LTD	001	2012/04/26	Yes	Outstanding
R L CROMBIE SAWMILL LTD	001	2012/04/26	No	Outstanding
NORTH ENDERBY TIMBER LTD	001	2012/04/26	No	Outstanding
CARY ALLAN HAJNRYCH	001	2012/04/25	No	Outstanding
MARDAN ENTERPRISES LTD	001	2012/04/26	No	Outstanding
KANADA WOOD CO. LTD.	001	2012/04/26	Yes	Outstanding
NORTH ENDERBY DISTRIBUTION LTD	001	2012/04/26	Yes	Outstanding
IVOR FOREST PRODUCTS LTD	002	2012/04/25	Yes	Not an Operating Location
WEYERHAEUSER COMPANY LIMITED	005	2012/04/25	Yes	Outstanding
WEYERHAEUSER COMPANY LIMITED	006	2012/04/25	Yes	No Longer in Operation at Location
TOLKO INDUSTRIES LTD	001	2012/04/25	No	Outstanding
TOLKO INDUSTRIES LTD	001	2012/04/26	No	Outstanding
TOLKO INDUSTRIES LTD	001	2012/04/26	No	Outstanding
TOLKO INDUSTRIES LTD	001	2012/05/02	No	Outstanding
TOLKO INDUSTRIES LTD	001	2012/04/26	No	Outstanding
L. S. POLSON LUMBER LTD.	001	2012/04/26	No	Outstanding
<b>Region: NANAIMO</b>				
NAGAARD SAWMILLS LTD	001	2012/04/26	Yes	Outstanding

<u>Employer Legal Name</u>	<u>Op Loc</u>	<u>Initiating / Directive</u> <u>Order Issued</u>	<u>Follow-up Site Visit</u> <u>Conducted</u>	<u>Initiating / Directive</u> <u>Order Status</u>
CHALWOOD FOREST PRODUCTS LTD	001	2012/04/26	Yes	Outstanding
COULSON MANUFACTURING LTD	002	2012/04/26	Yes	Outstanding
FRANKLIN FOREST PRODUCTS LTD	001	2012/04/26	Yes	Outstanding
JEMICO ENTERPRISES LTD	001	2012/04/26	Yes	Outstanding
LONG HOH ENTERPRISES CANADA LTD.	001	2012/04/26	Yes	Outstanding
ERRINGTON CEDAR PRODUCTS LTD	001	2012/04/26	Yes	Completed
WESTERN FOREST PRODUCTS INC.	006	2012/04/26	Yes	Outstanding
WESTERN FOREST PRODUCTS INC.	007	2012/04/26	Yes	Completed
WESTERN FOREST PRODUCTS INC.	008	2012/04/26	Yes	Outstanding
WESTERN FOREST PRODUCTS INC.	009	2012/04/26	No	Outstanding
WESTERN FOREST PRODUCTS INC.	010	2012/04/26	Yes	Outstanding
WESTERN FOREST PRODUCTS INC.	011	2012/04/26	Yes	Outstanding
WESTERN FOREST PRODUCTS INC.	012	2012/04/26	Yes	Outstanding
WESTERN FOREST PRODUCTS INC.	013	2012/04/26	Yes	Outstanding
WESTERN FOREST PRODUCTS INC.	015	2012/04/26	Yes	Outstanding
WESTERN FOREST PRODUCTS INC.	016	2012/04/26	Yes	Completed
<b>Region: COURTENAY</b>				
THOMSON BROS LUMBER CO LTD	001	2012/04/27	Yes	Completed
QUADRA ISLAND FOREST PRODUCTS LTD	001	2012/04/27	Yes	Outstanding
LOIS LUMBER LTD	001	2012/04/26	Yes	Outstanding
DOVE CREEK TIMBER CORP.	001	2012/04/26	Yes	Outstanding
<b>Region: NELSON</b>				
J H HUSCROFT LTD	001	2012/04/26	No	Outstanding
KALESNIKOFF LUMBER CO LTD	001	2012/04/26	Yes	Outstanding
GEORGE SHERBININ LUMBER LTD	001	2012/04/26	No	Outstanding
BOARDS BY GEORGE LUMBER INC	001	2012/04/26	Yes	Outstanding
TREE-O TIMBER INC.	001	2012/04/26	No	Outstanding
427123 BC LTD	001	2012/04/26	No	Outstanding
PORCUPINE WOOD PRODUCTS LTD	001	2012/04/26	Yes	Outstanding
BOX LAKE LUMBER PRODUCTS LTD	001	2012/04/26	No	Outstanding
JANICE FREER	001	2012/04/26	No	Outstanding
HERRIDGE CUSTOM PROFILING LTD	001	2012/04/26	No	Outstanding

<u>Employer Legal Name</u>	<u>Op Loc</u>	<u>Initiating / Directive Order Issued</u>	<u>Follow-up Site Visit Conducted</u>	<u>Initiating / Directive Order Status</u>
HARROP-PROCTER COMMUNITY CO-OPERATIVE	001	2012/04/26	No	Outstanding
GOLD ISLAND FOREST PRODUCTS LIMITED	001	2012/04/26	No	Outstanding
SPRINGER CREEK FOREST PRODUCTS LTD	001	2012/04/26	No	Outstanding
ATCO WOOD PRODUCTS LTD	001	2012/04/26	No	Outstanding
INTERNATIONAL FOREST PRODUCTS LIMITED	001	2012/04/26	Yes	Outstanding
INTERNATIONAL FOREST PRODUCTS LIMITED	001	2012/04/26	Yes	Outstanding
WYNDEL BOX & LUMBER COMPANY LIMITED	001	2012/04/26	Yes	Outstanding
VAAGEN FIBRE CANADA, ULC	001	2012/04/26	Yes	Outstanding
<b>Region: CRANBROOK</b>				
GALLOWAY LUMBER CO LTD	001	2012/04/26	Yes	Outstanding
MCDONALD RANCH & LUMBER LTD	001	2012/04/26	Yes	Completed
UKASS LOGGING LTD	001	2012/04/26	Yes	Outstanding
NORTH STAR PLANING CO LTD	001	2012/04/26	Yes	Outstanding
BEAR LUMBER LTD	001	2012/04/26	Yes	Completed
MOBERLY WOOD PRODUCTS LTD	001	2012/04/26	No	Outstanding
644278 B.C. LTD.	001	2012/04/26	Yes	Outstanding
SCHOFIELD CREEK INVESTMENTS LTD	001	2012/04/26	Yes	Outstanding
KEITH CHARLES COBURN	001	2012/04/26	Yes	Outstanding
SOLES FOREST PRODUCTS LTD	001	2012/04/26	No	Outstanding
TEMBEC INDUSTRIES INC & TEMBEC ENTERPRISES INC	001	2012/04/26	Yes	Outstanding
TEMBEC INDUSTRIES INC & TEMBEC ENTERPRISES INC	003	2012/04/26	Yes	Outstanding
TEMBEC INDUSTRIES INC & TEMBEC ENTERPRISES INC	005	2012/04/26	Yes	Outstanding
<b>Region: COQUITLAM</b>				
INTERNATIONAL FOREST PRODUCTS LIMITED	001	2012/04/26	Yes	Outstanding
ANDERSEN PACIFIC FOREST PRODUCTS LTD	001	2012/04/27	Yes	Outstanding
GALLANT ENTERPRISES LTD	001	2012/04/26	Yes	Outstanding

<u>Employer Legal Name</u>	<u>Op Loc</u>	<u>Initiating / Directive Order Issued</u>	<u>Follow-up Site Visit Conducted</u>	<u>Initiating / Directive Order Status</u>
FLAVELLE SAWMILL COMPANY LIMITED	001	2012/04/26	Yes	Outstanding
HALO SAWMILL MANUFACTURING LTD., GENERAL PARTNER FOR	001	2012/04/26	Yes	Outstanding
COAL ISLAND LTD	001	2012/04/26	Yes	Outstanding
<b>Region: KAMLOOPS</b>				
INTERNATIONAL FOREST PRODUCTS LIMITED	002	2012/04/26	Yes	Outstanding
CANADIAN FOREST PRODUCTS LTD	060	2012/04/26	Yes	Outstanding
GILBERT SMITH FOREST PRODUCTS LTD	001	2012/04/26	Yes	Outstanding
FEDERATED CO-OPERATIVES LTD	009	2012/04/26	No	Outstanding
HAUER BROS LUMBER LTD	001	2012/04/26	Yes	Outstanding
JOE KOZEK SAWMILLS LTD.	001	2012/04/26	Yes	Outstanding
ASPEN PLANERS LTD	001	2012/04/26	Yes	Outstanding
ASPEN PLANERS LTD	004	2012/04/26	Yes	Outstanding
WADLEGGER LOGGING & CONSTRUCTION LTD	001	2012/04/26	No	Outstanding
ARDEW WOOD PRODUCTS LTD	001	2012/04/26	Yes	Outstanding
WALSH ELECTRIC LTD	001	2012/04/26	Yes	No Longer in Operation at Location
GRIZZLEY MOUNTAIN LUMBER LTD	001	2012/04/26	No	Outstanding
CATHERYN J MUNRO	001	2012/04/26	No	Outstanding
CAMBIE CEDAR PRODUCTS LTD	001	2012/04/25	No	Outstanding
WHISKEY CREEK FOREST PRODUCTS LTD	001	2012/04/26	No	Outstanding
FU SO ENTERPRISES LTD	002	2012/04/26	Yes	Completed
0743074 BC LTD	001	2012/04/26	Yes	Outstanding
WEST FRASER MILLS LTD	007	2012/04/26	Yes	Completed
WEST FRASER MILLS LTD	009	2012/04/25	Yes	Completed
WEST FRASER MILLS LTD.	015	2012/04/26	Yes	Outstanding
SILVER DEW HARDWOODS LTD.	001	2012/04/26	No	Outstanding
TOLKO INDUSTRIES LTD	001	2012/04/26	No	Outstanding
TOLKO INDUSTRIES LTD	002	2012/04/26	No	Outstanding
TOLKO INDUSTRIES LTD	001	2012/04/26	No	Outstanding
TOLKO INDUSTRIES LTD	001	2012/04/26	No	Outstanding
TOLKO INDUSTRIES LTD.	001	2012/04/26	No	Outstanding
BENJAMIN ROBERT SMITH	001	2012/04/26	No	Outstanding

**Orders Issued Under Combustible Dust Strategy**Run Date: May 09, 2012  
Period End Date: May 09, 2012

IR's issued on or after April 24, 2012

<u>Employer Legal Name</u>	<u>Op Loc</u>	<u>Initiating / Directive Order Issued</u>	<u>Follow-up Site Visit Conducted</u>	<u>Initiating / Directive Order Status</u>
DOWNIE TIMBER LTD	001	2012/04/26	Yes	Outstanding
LAKESIDE TIMBER (2007) LTD	001	2012/04/26	Yes	Outstanding
654485 BC LTD.	001	2012/04/26	No	Outstanding
100 MILE WOOD PRODUCTS LTD	001	2012/04/26	Yes	Outstanding
HAMILL CREEK TIMBER HOMES (2010) LTD.	001	2012/04/26	No	Outstanding
RIVER WEST FOREST PRODUCTS LTD	001	2012/04/26	No	Outstanding
WOODCO MANAGEMENT LTD	001	2012/04/26	Yes	Outstanding

Total:            Number of Locations: 176

Number of Follow-up Site Visits: 108



Dick, Joan L LCTZ:EX

---

From: Greer, David GCPE:EX  
Sent: Monday, May 14, 2012 11:49 AM  
To: MacDiarmid, Margaret LCTZ:EX; Henderson, Kim N LCTZ:EX; Dick, Joan L LCTZ:EX; Plant, Graham LCTZ:EX  
Subject: FW: Investigations Update - May 14th 2012

Positioning. 2pm alert stakeholders, 3pm news release

-----Original Message-----

From: McCloy, Scott [<mailto:Scott.McCloy@worksafebc.com>]  
Sent: Monday, May 14, 2012 11:47 AM  
To: Greer, David GCPE:EX  
Subject: FW: Investigations Update - May 14th 2012

not responsive

not responsive

**Dick, Joan L LCTZ:EX**

---

**From:** Greer, David GCPE:EX  
**Sent:** Monday, May 14, 2012 2:03 PM  
**To:** Dick, Joan L LCTZ:EX  
**Subject:** RE: Sawmill Investigations Update May'12 FINAL



Media advisory  
text - May 14.d...

---

**From:** Dick, Joan L LCTZ:EX  
**Sent:** Monday, May 14, 2012 2:00 PM  
**To:** Greer, David GCPE:EX  
**Subject:** RE: Sawmill Investigations Update May'12 FINAL

D:  
Need the conference cal info. I will dial in from over here.  
M3D has a meeting w/Athana at that time.  
J.

---

**From:** Greer, David GCPE:EX  
**Sent:** Monday, May 14, 2012 1:44 PM  
**To:** MacDiarmid, Margaret LCTZ:EX; Henderson, Kim N LCTZ:EX; Dick, Joan L LCTZ:EX; Plant, Graham LCTZ:EX  
**Subject:** FW: Sawmill Investigations Update May'12 FINAL

Here's the WSBC final,

s13

. They will address on conf call.

s13

<< File: Sawmill Investigations Update May'12.docx >>

So, run down for this aft:

Media advisory going out at 2 p.m.

Calls to key stakeholders at that time as well

Media release posted at 2:45

Media conference call at 3.

Stakeholder calls will continue for those

Dick, Joan L LCTZ:EX

---

**From:** MacDiarmid, Margaret LCTZ:EX  
**Sent:** Wednesday, May 16, 2012 5:56 PM  
**To:** Henderson, Kim N LCTZ:EX  
**Cc:** Dick, Joan L LCTZ:EX; Plant, Graham LCTZ:EX  
**Subject:** Re: Meeting with USW this am

s.13

Sent from my iPad

On 2012-05-16, at 5:51 PM, "Henderson, Kim N LCTZ:EX" <[Kim.Henderson@gov.bc.ca](mailto:Kim.Henderson@gov.bc.ca)> wrote:

s13

---

**From:** MacDiarmid, Margaret LCTZ:EX  
**Sent:** Wednesday, May 16, 2012 5:39 PM  
**To:** Henderson, Kim N LCTZ:EX  
**Cc:** Dick, Joan L LCTZ:EX; Plant, Graham LCTZ:EX  
**Subject:** Re: Meeting with USW this am

Thank you.

s13

s13

Thanks,

Margaret

Sent from my iPad

On 2012-05-16, at 5:22 PM, "Henderson, Kim N LCTZ:EX" <[Kim.Henderson@gov.bc.ca](mailto:Kim.Henderson@gov.bc.ca)> wrote:

Hi, I followed up with Dave Anderson on some of the pieces discussed in the meeting this am.

A few points I thought you'd want to know:

s13

k.

Dick, Joan L LCTZ:EX

---

**From:** Freeman, Donna [Donna.Freeman@worksafebc.com]  
**Sent:** Thursday, May 31, 2012 2:30 PM  
**To:** Greer, David GCPE:EX  
**Cc:** Dick, Joan L LCTZ:EX  
**Subject:** FW: Info on inspection updates  
**Attachments:** SawmillSummary-May29.pdf; SawmillOrders-May22.pdf; Sawmill - Summary-May 11pdf.pdf

Hi there. The Vancouver Sun has asked for the information noted below. It has all been posted on our website in recent weeks.

*Donna Freeman*  
*Director, Media Relations*  
*WorkSafeBC*  
*604-276-3141*  
[donna.freeman@worksafebc.com](mailto:donna.freeman@worksafebc.com)

not responsive



not responsive

**Orders Issued Under Combustible Dust Strategy**Run Date: May 11, 2012  
Period End Date: May 11, 2012

IR's issued on or after April 24, 2012

<u>Employer Legal Name</u>	<u>Op Loc</u>	<u>Initiating / Directive Order Issued</u>	<u>Follow-up Site Visit Conducted</u>	<u>Initiating / Directive Order Status</u>
<b>Region: NORTH SHORE</b>				
A J FOREST PRODUCTS LTD	001	2012/04/26	Yes	Outstanding
TERAZEL LANDS LIMITED	001	2012/04/26	Yes	Outstanding
<b>Region: RICHMOND/VANCOUVER/DELTA</b>				
DELTA CEDAR SERVICES LTD.	001	2012/04/26	Yes	Outstanding
INTERNATIONAL FOREST PRODUCTS LIMITED	003	2012/04/26	Yes	Outstanding
GOLDWOOD INDUSTRIES LTD	001	2012/04/26	Yes	Outstanding
TERMINAL FOREST PRODUCTS LTD	001	2012/04/26	Yes	Outstanding
TERMINAL FOREST PRODUCTS LTD	003	2012/04/26	Yes	Outstanding
<b>Region: SURREY</b>				
S & R SAWMILLS LTD	001	2012/04/25	No	Outstanding
S & R SAWMILLS LTD	004	2012/04/26	Yes	Outstanding
S & R SAWMILLS LTD	007	2012/04/26	Yes	Outstanding
S & R SAWMILLS LTD	008	2012/04/26	No	Outstanding
S & R SAWMILLS LTD	009	2012/04/26	Yes	Outstanding
TEAL CEDAR PRODUCTS LTD & COLUMBIA RIVER SHAKE & SHINGLE LTD	002	2012/04/26	Yes	Outstanding
TEAL CEDAR PRODUCTS LTD & COLUMBIA RIVER SHAKE & SHINGLE LTD	003	2012/04/26	No	Outstanding
TEAL CEDAR PRODUCTS LTD & COLUMBIA RIVER SHAKE & SHINGLE LTD	011	2012/04/26	Yes	Outstanding
<b>Region: ABBOTSFORD</b>				
BRUNO LAMPART	001	2012/04/26	Yes	No Longer in Operation at Location
SHANNON LUMBER LIMITED	001	2012/04/26	Yes	Outstanding
DAVID HORN	001	2012/04/26	Yes	Outstanding
EVERWOOD INDUSTRIES LTD	001	2012/04/26	Yes	Outstanding
PACIFIC COAST TIMBER INC	001	2012/04/26	Yes	Outstanding
VERNER POULSEN	001	2012/04/26	Yes	No Longer in Operation at Location
SQUARELOG LUMBER CORP	001	2012/04/26	Yes	Completed
RODNEY PARSEY	001	2012/04/26	No	Outstanding
IVOR FOREST PRODUCTS LTD	001	2012/04/26	Yes	Outstanding
RPN SYSTEMS LTD	001	2012/04/26	No	Outstanding
BASTIAAN NEELS	001	2012/04/26	Yes	Outstanding

**Region: PRINCE GEORGE**

<u>Employer Legal Name</u>	<u>Op Loc</u>	<u>Initiating / Directive</u>	<u>Follow-up Site Visit</u>	<u>Initiating / Directive</u>
		<u>Order Issued</u>	<u>Conducted</u>	<u>Order Status</u>
CANADIAN FOREST PRODUCTS LTD	022	2012/04/25	No	Outstanding
CANADIAN FOREST PRODUCTS LTD	027	2012/04/25	Yes	Outstanding
CANADIAN FOREST PRODUCTS LTD	037	2012/04/25	Yes	Outstanding
CANADIAN FOREST PRODUCTS LTD	043	2012/04/25	Yes	Outstanding
CANADIAN FOREST PRODUCTS LTD	061	2012/04/25	Yes	Outstanding
CANADIAN FOREST PRODUCTS LTD	065	2012/04/25	No	Outstanding
CANADIAN FOREST PRODUCTS LTD	066	2012/04/25	Yes	Outstanding
LAKELAND MILLS LTD	001	2012/04/26	No	Outstanding
DUNKLEY LUMBER LTD	001	2012/04/26	Yes	Outstanding
CARRIER LUMBER LTD	001		No	
DECKER LAKE FOREST PRODUCTS LTD	001	2012/04/25	Yes	Outstanding
APOLLO FOREST PRODUCTS LTD	001	2012/04/25	Yes	Outstanding
L & M LUMBER LTD	001	2012/04/25	Yes	Outstanding
M & K SAWMILL LTD	002	2012/04/25	No	Outstanding
BABINE FOREST PRODUCTS LIMITED	001	2012/04/25	Yes	Outstanding
LEONARD MCCARTY	001	2012/04/25	Yes	Outstanding
SHERATON HOLDINGS LTD	001	2012/04/25	No	Outstanding
R 391 ENTERPRISES LTD	001	2012/04/25	Yes	Completed
HEARTLANDS FOREST PRODUCTS INC.	001	2012/04/25	No	Outstanding
WEST FRASER MILLS LTD	003	2012/04/25	Yes	Outstanding
WEST FRASER MILLS LTD	004	2012/04/25	No	Outstanding
WEST FRASER MILLS LTD	011	2012/04/25	Yes	Outstanding
WEST FRASER MILLS LTD	017	2012/04/25	Yes	No Longer in Operation at Location
TOLKO INDUSTRIES LTD	001	2012/04/25	Yes	Outstanding
NORTHERN INTERIOR FOREST PRODUCTS LTD.	001	2012/04/25	No	Outstanding
CONIFEX INC	001	2012/04/25	Yes	Outstanding
CONIFEX MACKENZIE FOREST PRODUCTS INC	001	2012/04/25	Yes	Outstanding
TREECO TIMBER CORP	002	2012/04/25	No	Outstanding
Region: FORT ST. JOHN				
CANADIAN FOREST PRODUCTS LTD	019	2012/04/26	Yes	Outstanding
CANADIAN FOREST PRODUCTS LTD	024	2012/04/26	Yes	Outstanding
WEST FRASER MILLS LTD	006	2012/04/26	Yes	Outstanding
Region: TERRACE				
CANADIAN FOREST PRODUCTS LTD	038	2012/04/25	Yes	Outstanding
ABFAM ENTERPRISES LTD	001	2012/04/25	Yes	Outstanding

<u>Employer Legal Name</u>	<u>Op Loc</u>	<u>Initiating / Directive</u> <u>Order Issued</u>	<u>Follow-up Site Visit</u> <u>Conducted</u>	<u>Initiating / Directive</u> <u>Order Status</u>
HUNKY DORY SAWMILLS LTD	001	2012/04/25	Yes	Outstanding
SWIS WOOD PRODUCTS LTD	001	2012/04/25	Yes	Completed
DAVID LESLIE WEST	001	2012/04/25	No	Outstanding
WEST FRASER MILLS LTD	013	2012/04/26	Yes	Outstanding
KERMODEI SAWMILLS LIMITED	001	2012/04/25	No	Outstanding
LAKE DRIVE LUMBER LTD	001	2012/04/25	No	Outstanding
<b>Region: KELOWNA</b>				
GORMAN BROS. LUMBER LTD.	001	2012/04/25	Yes	Outstanding
SCHAPOL LOGGING LTD	001	2012/04/26	No	Outstanding
ROUCK BROS SAWMILL LTD	001	2012/04/26	No	Outstanding
GREENWOOD FOREST PRODUCTS (1983) LTD	001	2012/04/26	Yes	Outstanding
R L CROMBIE SAWMILL LTD	001	2012/04/26	No	Outstanding
NORTH ENDERBY TIMBER LTD	001	2012/04/26	Yes	Outstanding
CARY ALLAN HAJNRYCH	001	2012/04/25	No	Outstanding
MARDAN ENTERPRISES LTD	001	2012/04/26	No	Outstanding
KANADA WOOD CO. LTD.	001	2012/04/26	Yes	Outstanding
NORTH ENDERBY DISTRIBUTION LTD	001	2012/04/26	Yes	Outstanding
IVOR FOREST PRODUCTS LTD	002	2012/04/25	Yes	Not an Operating Location
WEYERHAEUSER COMPANY LIMITED	005	2012/04/25	Yes	Outstanding
WEYERHAEUSER COMPANY LIMITED	006	2012/04/25	Yes	No Longer in Operation at Location
TOLKO INDUSTRIES LTD	001	2012/04/25	No	Outstanding
TOLKO INDUSTRIES LTD	001	2012/04/26	No	Outstanding
TOLKO INDUSTRIES LTD	001	2012/04/26	No	Completed
TOLKO INDUSTRIES LTD	001	2012/05/02	No	Outstanding
TOLKO INDUSTRIES LTD	001	2012/04/26	No	Outstanding
L. S. POLSON LUMBER LTD.	001	2012/04/26	No	Outstanding
<b>Region: NANAIMO</b>				
NAGAARD SAWMILLS LTD	001	2012/04/26	Yes	Outstanding
CHALWOOD FOREST PRODUCTS LTD	001	2012/04/26	Yes	Outstanding
COULSON MANUFACTURING LTD	002	2012/04/26	Yes	Outstanding
FRANKLIN FOREST PRODUCTS LTD	001	2012/04/26	Yes	Outstanding
JEMICO ENTERPRISES LTD	001	2012/04/26	Yes	Outstanding
LONG HOH ENTERPRISES CANADA LTD.	001	2012/04/26	Yes	Outstanding
ERRINGTON CEDAR PRODUCTS LTD	001	2012/04/26	Yes	Completed
WESTERN FOREST PRODUCTS INC.	006	2012/04/26	Yes	Outstanding

<u>Employer Legal Name</u>	<u>Op Loc</u>	<u>Initiating / Directive Order Issued</u>	<u>Follow-up Site Visit Conducted</u>	<u>Initiating / Directive Order Status</u>
WESTERN FOREST PRODUCTS INC.	007	2012/04/26	Yes	Completed
WESTERN FOREST PRODUCTS INC.	008	2012/04/26	Yes	Outstanding
WESTERN FOREST PRODUCTS INC.	009	2012/04/26	No	Outstanding
WESTERN FOREST PRODUCTS INC.	010	2012/04/26	Yes	Outstanding
WESTERN FOREST PRODUCTS INC.	011	2012/04/26	Yes	Outstanding
WESTERN FOREST PRODUCTS INC.	012	2012/04/26	Yes	Outstanding
WESTERN FOREST PRODUCTS INC.	013	2012/04/26	Yes	Outstanding
WESTERN FOREST PRODUCTS INC.	015	2012/04/26	Yes	Outstanding
WESTERN FOREST PRODUCTS INC.	016	2012/04/26	Yes	Completed
<b>Region: COURTENAY</b>				
THOMSON BROS LUMBER CO LTD	001	2012/04/27	Yes	Completed
QUADRA ISLAND FOREST PRODUCTS LTD	001	2012/04/27	Yes	Outstanding
LOIS LUMBER LTD	001	2012/04/26	Yes	Outstanding
DOVE CREEK TIMBER CORP.	001	2012/04/26	Yes	Outstanding
<b>Region: NELSON</b>				
J H HUSCROFT LTD	001	2012/04/26	No	Outstanding
KALESNIKOFF LUMBER CO LTD	001	2012/04/26	Yes	Outstanding
GEORGE SHERBININ LUMBER LTD	001	2012/04/26	No	No Longer in Operation at Location
BOARDS BY GEORGE LUMBER INC	001	2012/04/26	Yes	Outstanding
TREE-O TIMBER INC.	001	2012/04/26	No	Outstanding
427123 BC LTD	001	2012/04/26	No	Outstanding
PORCUPINE WOOD PRODUCTS LTD	001	2012/04/26	Yes	Outstanding
BOX LAKE LUMBER PRODUCTS LTD	001	2012/04/26	No	Outstanding
JANICE FREER	001	2012/04/26	Yes	Completed
HERRIDGE CUSTOM PROFILING LTD	001	2012/04/26	No	Outstanding
HARROP-PROCTER COMMUNITY CO-OPERATIVE	001	2012/04/26	No	Outstanding
GOLD ISLAND FOREST PRODUCTS LIMITED	001	2012/04/26	No	Outstanding
SPRINGER CREEK FOREST PRODUCTS LTD	001	2012/04/26	No	Outstanding
ATCO WOOD PRODUCTS LTD	001	2012/04/26	Yes	Completed
INTERNATIONAL FOREST PRODUCTS LIMITED	001	2012/04/26	Yes	Outstanding
INTERNATIONAL FOREST PRODUCTS LIMITED	001	2012/04/26	Yes	Completed

**Orders Issued Under Combustible Dust Strategy**Run Date: May 11, 2012  
Period End Date: May 11, 2012

IR's issued on or after April 24, 2012

<u>Employer Legal Name</u>	<u>Op Loc</u>	<u>Initiating / Directive Order Issued</u>	<u>Follow-up Site Visit Conducted</u>	<u>Initiating / Directive Order Status</u>
WYNNEDEL BOX & LUMBER COMPANY LIMITED	001	2012/04/26	Yes	Outstanding
VAAGEN FIBRE CANADA, ULC	001	2012/04/26	Yes	Outstanding
<b>Region: CRANBROOK</b>				
GALLOWAY LUMBER CO LTD	001	2012/04/26	Yes	Outstanding
MCDONALD RANCH & LUMBER LTD	001	2012/04/26	Yes	Completed
UKASS LOGGING LTD	001	2012/04/26	Yes	Completed
NORTH STAR PLANING CO LTD	001	2012/04/26	Yes	Completed
BEAR LUMBER LTD	001	2012/04/26	Yes	Completed
MOBERLY WOOD PRODUCTS LTD	001	2012/04/26	Yes	Completed
644278 B.C. LTD.	001	2012/04/26	Yes	Completed
SCHOFIELD CREEK INVESTMENTS LTD	001	2012/04/26	Yes	Completed
KEITH CHARLES COBURN	001	2012/04/26	Yes	Completed
SOLES FOREST PRODUCTS LTD	001	2012/04/26	No	Outstanding
TEMBEC INDUSTRIES INC & TEMBEC ENTERPRISES INC	001	2012/04/26	Yes	Outstanding
TEMBEC INDUSTRIES INC & TEMBEC ENTERPRISES INC	003		Yes	
TEMBEC INDUSTRIES INC & TEMBEC ENTERPRISES INC	005		Yes	
<b>Region: COQUITLAM</b>				
INTERNATIONAL FOREST PRODUCTS LIMITED	001	2012/04/26	Yes	Outstanding
ANDERSEN PACIFIC FOREST PRODUCTS LTD	001	2012/04/27	Yes	Outstanding
GALLANT ENTERPRISES LTD	001	2012/04/26	Yes	Outstanding
FLAVELLE SAWMILL COMPANY LIMITED	001	2012/04/26	Yes	Outstanding
HALO SAWMILL MANUFACTURING LTD., GENERAL PARTNER FOR	001	2012/04/26	Yes	Outstanding
COAL ISLAND LTD	001	2012/04/26	Yes	Outstanding
<b>Region: KAMLOOPS</b>				
INTERNATIONAL FOREST PRODUCTS LIMITED	002	2012/04/26	Yes	Outstanding
CANADIAN FOREST PRODUCTS LTD	060	2012/04/26	Yes	Outstanding
GILBERT SMITH FOREST PRODUCTS LTD	001	2012/04/26	Yes	Outstanding
FEDERATED CO-OPERATIVES LTD	009	2012/04/26	No	Outstanding
HAUER BROS LUMBER LTD	001	2012/04/26	Yes	Outstanding

<u>Employer Legal Name</u>	<u>Op Loc</u>	<u>Initiating / Directive</u>	<u>Follow-up Site Visit</u>	<u>Initiating / Directive</u>
		<u>Order Issued</u>	<u>Conducted</u>	<u>Order Status</u>
JOE KOZEK SAWMILLS LTD.	001	2012/04/26	Yes	Outstanding
ASPEN PLANERS LTD	001	2012/04/26	Yes	Outstanding
ASPEN PLANERS LTD	004	2012/04/26	Yes	Outstanding
WADLEGGER LOGGING & CONSTRUCTION LTD	001	2012/04/26	No	Outstanding
ARDEW WOOD PRODUCTS LTD	001	2012/04/26	Yes	Outstanding
WALSH ELECTRIC LTD	001	2012/04/26	Yes	No Longer in Operation at Location
GRIZZLEY MOUNTAIN LUMBER LTD	001	2012/04/26	No	Outstanding
CATHERYN J MUNRO	001	2012/04/26	No	Outstanding
CAMBIE CEDAR PRODUCTS LTD	001	2012/04/25	No	Outstanding
WHISKEY CREEK FOREST PRODUCTS LTD	001	2012/04/26	Yes	Completed
FU SO ENTERPRISES LTD	002	2012/04/26	Yes	Completed
0743074 BC LTD	001	2012/04/26	Yes	Outstanding
WEST FRASER MILLS LTD	007	2012/04/26	Yes	Completed
WEST FRASER MILLS LTD	009	2012/04/25	Yes	Completed
WEST FRASER MILLS LTD	015	2012/04/26	Yes	Outstanding
SILVER DEW HARDWOODS LTD.	001	2012/04/26	No	Outstanding
TOLKO INDUSTRIES LTD	001	2012/04/26	No	Outstanding
TOLKO INDUSTRIES LTD	002	2012/04/26	No	Outstanding
TOLKO INDUSTRIES LTD	001	2012/04/26	No	Outstanding
TOLKO INDUSTRIES LTD	001	2012/04/26	No	Outstanding
TOLKO INDUSTRIES LTD.	001	2012/04/26	No	Outstanding
BENJAMIN ROBERT SMITH	001	2012/04/26	No	Outstanding
DOWNIE TIMBER LTD	001	2012/04/26	Yes	Outstanding
LAKESIDE TIMBER (2007) LTD	001	2012/04/26	Yes	Outstanding
654485 BC LTD.	001	2012/04/26	No	Outstanding
100 MILE WOOD PRODUCTS LTD	001	2012/04/26	Yes	Outstanding
HAMILL CREEK TIMBER HOMES (2010) LTD.	001	2012/04/26	No	Outstanding
RIVER WEST FOREST PRODUCTS LTD	001	2012/04/26	No	Outstanding
WOODCO MANAGEMENT LTD	001	2012/04/26	Yes	Outstanding

Total: Number of Locations: 176

Number of Follow-up Site Visits: 121

---

<u>Employer Legal Name</u>	<u>Op Loc</u>	<u>Initiating / Directive Order Issued</u>	<u>Follow-up Site Visit Conducted</u>	<u>Initiating / Directive Order Status</u>
----------------------------	---------------	--	---	--

---

**Glossary:**

Run Date: The date on which the report was produced. This is always on or after the Source Period End Date.

Source Period End Date: The date up to which the data for this report is current. Changes to source data occurring after this date are NOT reflected in the report.

Initiating/Directive Order Issued: This date reflects the first Inspection Report on or after April 24, 2012 citing regulation WCA 115(1)(a) in an Initiating Order.

Follow-up Site Visit Conducted : This represents whether there has been a site inspection to follow-up on the initiating directive order citing regulation WCA 115(1)(a) issued on or after April 24, 2012, where the follow-up is in a site visit Inspection Report in Firm File or as reported by Regional Services (May 8th) where the document may not have made it into Firm File at the time the report was run.

Initiating/Directive Order Status: This represents the status of the first Initiating Order citing regulation WCA 115(1)(a) issued on or after April 24, 2012.

"Outstanding" indicates that the employer is still working towards compliance with the directive order to conduct a risk assessment, and develop and implement a documented control plan, which includes training.

"Completed" indicates that the WorkSafeBC officer was satisfied that the steps outlined in the directive order have completed