

WorkSafeBC Regulators Update Forum

The state of the O/G industry in BC

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Introduction

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Presentation Agenda

1. Key Findings
2. One key area of improvement in the Oil and Gas Industry in 2014?
3. What are some of the areas of concern that have come up this past year?
4. Emerging issues for 2015

Key Findings - Upstream O&G

- Over a 5 year period, O&G Drilling and Field Servicing saw about a 20% decrease in their base rates
- The Injury Rate for the upstream oil and gas industry remains lower than the Injury Rate for all BC Classification Units combined
- The average Short-Term Disability Duration (work days lost per claim) is significantly higher than all BC
- Between 2010 and 2014, there were 177 Serious Injury Claims (representing 29% of the claims and 61% of claims cost paid to date)
- Between 2010 and 2015 YTD, there were 9 work-related deaths

What is the Oil and Gas sector doing well?

Managed Camps

- Why are they important?
- What has been good about them?
- What is the goal of a Managed Camp?
- Increased site services with better access to medical and other needs
- Bunk House Policy



Area of Concern

Un-managed Camps:

- called "Texas Camps"
- one or two portable building structures
- workers provide own services including cooking and cleaning

Concerns:

- primary concern is supervision
- Industrial Camp Standards
- WorkSafeBC obligations – camps an extension of the workplace
- two tragic incidents highlight importance of proper supervision



Areas of Concern – Crane Incidents in 2014

- 1) Crane flipped over when setting up for a Frack; crane boom narrowly missed 2 pumper operators
- 2) Crane was hoisting a snubbing unit off a service rig; outrigger punched through conductor barrel and landed on wellhead
- 3) Crane was pulled over when unloading frack water reels



Concerns:

- Ensure crane operators are BC certified and experienced in work being done
- Ensure cranes are properly inspected and certified
- Ensure crane is properly set up and area is capable of supporting the load



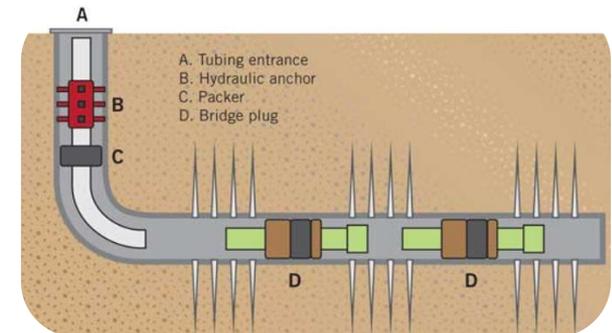
Areas of Concern – Use of Explosives

A recent incident where workers were attempting to set a bridge plug using explosives. Tools and explosives was left onsite unattended. When operations resumed the next day, a worker was attempting to test the circuit and the explosive detonated injuring the worker.



Concerns:

- 1) Ensure proper planning - having the right tool for the job
- 2) Explosive storage
- 3) Change Management
- 4) Contractor Management



Areas of Concern– Pipelining and Stringing Pipe

Two incidents resulting in serious injuries:

- 12”x 60 ‘ ft joint struck a worker when it rolled off the top tier striking the worker
- a worker struck in the chest by a 6” x 60’ft joint pinned against the pipe trucks bulkhead



Concerns:

- 1) Lack of adequate Safe Work Procedures for stringing of pipe
- 2) Training of workers in Rigging and the work being done
- 3) Using appropriate pipe hooks for pipe handling
- 4) Ensuring all pipe trailers have deck pins extending at least 18” above trailer deck
- 5) Ensuring reportable incidents are immediately reported to WSBC and that the incident scene is preserved.

Areas of Concern – Proper Pipe Restraint

Recent fatality - worker struck by high pressure piping during a nitrogen Frack operation

- issue highlighted in past years due to a number of serious injuries
- incident still under WSBC investigation
- worker in process of de-pressurizing line (approx 6800 psi) – line moved/jumped
- line struck worker in the head



Concerns:

- 1) Are your high pressure lines adequately restrained against undue movement?
- 2) Can operations with line pressure greater than 300 psi (2000 kpa) be operated remotely?
- 3) Are your high pressure zones well defined and signed to ensure workers keep out during high pressure operations?



Emerging Issues – Occupational Disease

In 2014, WSBC received claims for 173 deaths. 98 were the result of occupational disease.



Response –

- Address occupational disease in H&S Management Plans
 - Identify areas of possible exposures for workers and contractors
 - Exposure Control Plans (ECPs) to eliminate or mitigate risks
- ❖ WSBC will continue to visit Drilling and Completions operations to review the effective assessment and implementation of ECP's for NORMS, Silica, Oil Based Drilling Fluids, Mercury and Benzene

Emerging Issues – Diving in Frack Water Ponds

Sport Divers utilizing scuba to do survey and repair work

- Is this Commercial Diving?
- Are Frack water ponds considered Confined spaces?



Response –

- Diving in a Frack water pond considered “Commercial Diving in contaminated water” - requires a 3 person crew with surface supplied air and decontamination facilities and procedures (OHSR part 24 and CSA Z275.2-14)
- Confined Space? - depends on the RISKS and HAZARDS associated with any entry into the area. OHSR, Part 9, requires employer conduct a comprehensive assessment; then implement the required SWP and practices to ensure worker safety when entering.

