



Energy Safety Conference Regulators Forum

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Risk Management Basics in Oil and Gas Operations

| | | Potential severity | | | |
|--------|-------------|--------------------|----------|--------|---------|
| | | Minor | Moderate | Major | Extreme |
| Chance | Rare | Low | Low | Medium | Medium |
| | Unlikely | Low | Medium | Medium | Medium |
| | Moderate | Medium | Medium | Medium | High |
| | Likely | Medium | Medium | High | High |
| | Very likely | Medium | High | High | High |

May 3, 2023

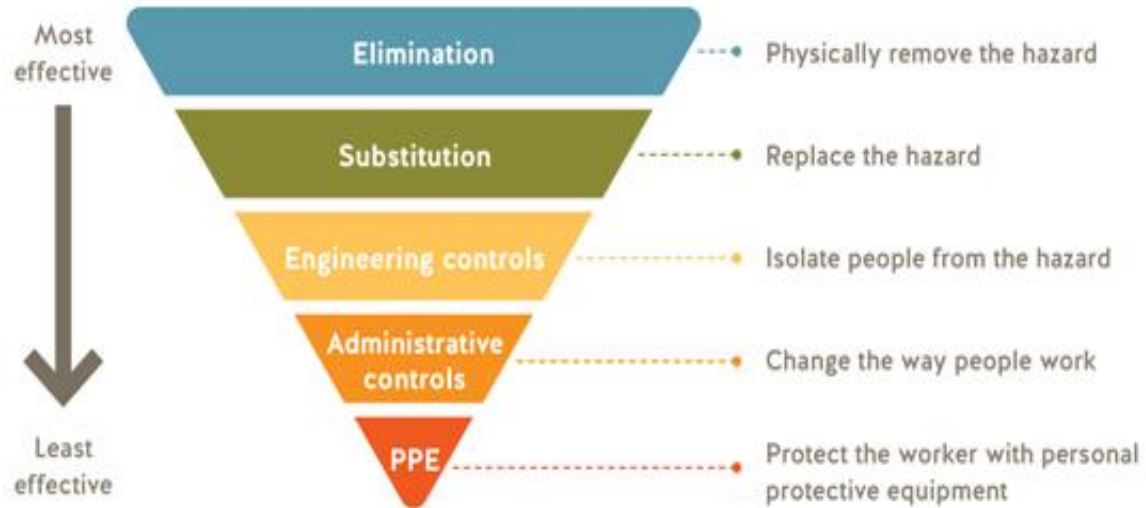
RMB

- The RMB approach was launched in 2022 to directly align with WorkSafeBC's 2022-2024 strategic priority to prevent workplace injury, disease and death by engaging employers and workers in workplace health and safety
- **Flowing from Existing OHSR 23.5**
- Step 1) Identify Worksite Hazards/ discussion with Supervisors and Workers- Assess the risks (classify the risks)
- Step 2) Identify/Implementation of Control measures based upon the hierarchy of controls
- Step 3) Communicate-does everyone know what you are doing and why?
- Step 4) Monitor and update as needed



RMB

Hierarchy of controls



RCA (Risk Control Assessment) oil and gas all sites



High Risk Strategies and Industry Initiatives Report

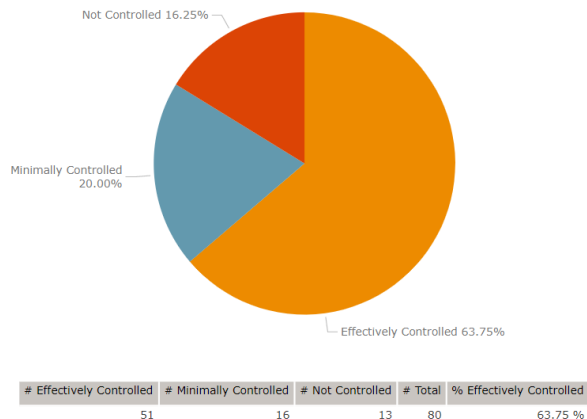
Is Current Year

Yes

Date

1/1/2022 11/22/2022

Clear Filters



Oil and Gas 2021-2023 Initiative Focus

Problem

The Oil and Gas Initiative is designed to focus on areas of concern within the oil and gas sector that is generating serious injury claims.

Primary goal

Prevent serious, fatal and repetitive injuries in the following areas: (adding a focus upon the reduction of time loss injuries, which will include a strong emphasis upon MSI injury reduction at all sites)

- Fire and explosions across the oil and gas sector, with particular emphasis upon well servicing and waste disposal
- Control of hazardous energy (includes static electricity)
- Pressure management/Control which includes flow piping systems
- Manual free falling (**Supervision to the level of Risk**)
- Pipeline construction (mechanisms of injury)
- Occupational exposures



Occupational Disease – Exposure Control Plans (ECP's)

-**Occupational Disease** continues to expand in impacts and scope (Occupational Disease fatalities continue to eclipse traumatic injury claims each year)-**As of December 2022=181 fatalities- 74/40% traumatic injury and 107/60% Disease**

-**Areas for monitoring and ECP development:** Silica, Lead, **Solar**, Hydrocarbon based drilling fluids, Diesel Exhaust, Benzene, Mercury, Hearing Loss, NORMS, H2S and all designated substances require ECP's (**sensitizers like SPC 888 for pipe coating**)

-**Welders & welders helpers need to be wearing appropriate respiratory protection (selection criteria)**

-**MSI risk assessments and risk control OHSR 4.47-53**

(Part 5.48-5.59 for an outline of what is required around site surveys, monitor and development of ECP's)

-**What's new and emerging- Nano particles (both dry and fluid immersed) i.e., Nano Polymers in fracking fluids**



RMB Enforcement Approach

- Inspections are not exclusively consultative or educational in nature
- Orders are to be written where there are violations found related to the elements of the risk management basics inspections
- Additional enforcement tools can be utilized where appropriate (e.g. citation warnings, citations, Warning Letter's or Sanctions etc.)



Additional Areas to Consider



-Mental Health Safety-fastest growing area of Occupational Health concerns and issues, what are you doing to support your workers?

Questions?

