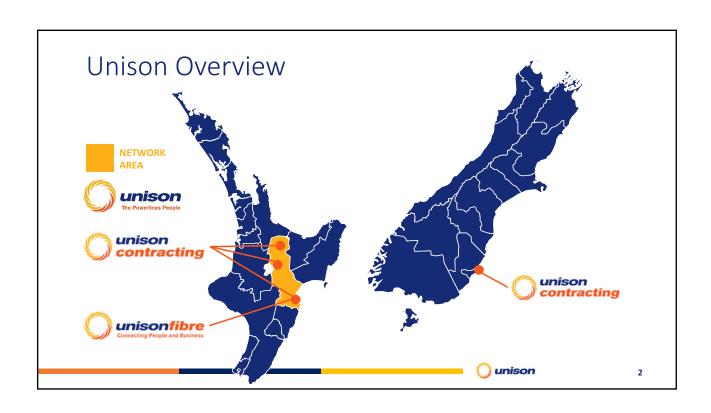
# Workplace Safety Award 2023

New Critical Risk Framework

EEA Health & Safety Conference October 2023



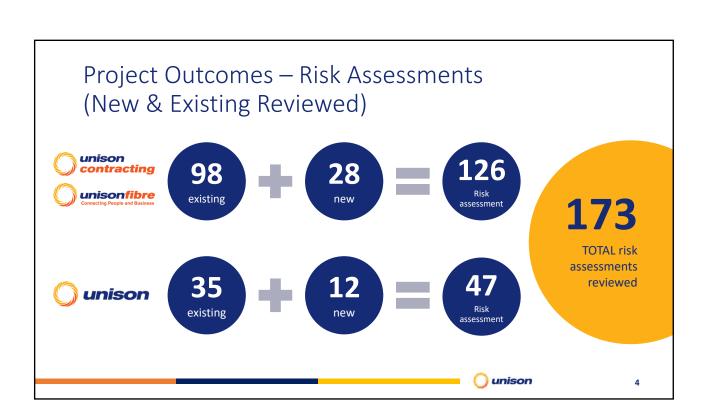


## What was the issue?

- Dynamic industry, multiple operations & working environments
- Large number of health and safety risks
- Out of date hazard/risk registers for Unison companies last reviewed 2016
  - Missing:
    - · New depot (Dunedin)
    - · Changes to operations, tasks, plant and equipment
    - Network staff activities in the field
    - · Outcomes from formal event investigations, safety alerts, changes to HSMS
- Unison company risk registers (Fibre, Network, Contracting Company) managed separately
- Risk to the health and safety of our workers from unknown, unmanaged and/or uncontrolled risks due to outdate & unaligned risk registers

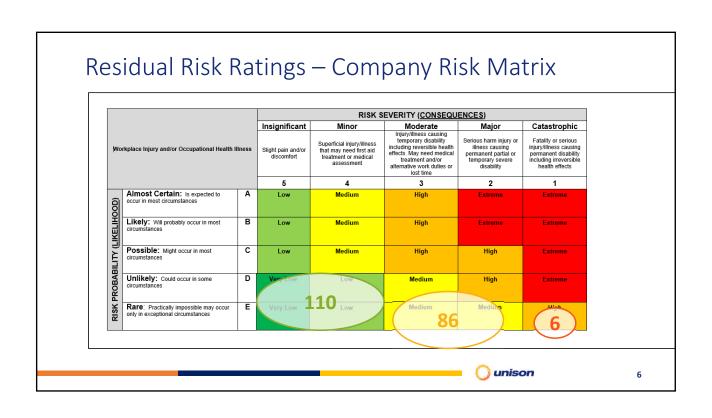
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- January 2020 project commenced to review Unison Risk Register (2-year project):
  - HSR's & operational reps/leaders, subject matter experts,
  - On site and off site (field) activities & workplaces,
  - · Contracting & network companies worked collaboratively,
  - · Started with the contracting and fibre companies,



2





# 6 High Residual Risk Activities

- Live HV glove and barrier/hot stick work
- · Driving vehicles
- · Working on or near roads
- · Helicopter operations
- Working in zone substations
- Equipment Room (Fire suppressant system)

High

## Escalate to Group CEO

- Very high risk action plan required additional controls to be implemented
- Group CEO manages risk

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# Critical Risk Tier Structure

Tier 1 = With controls in place, consequence could be catastrophic, but the likelihood is rare

Tier 2 = With controls in place, consequence is not catastrophic

- Critical risk pictorials
  - Visually engaging, 1 for each critical risk, Unison colours (differentiating between tier 1 & 2 with colour inversion)
  - Used consistently to any material referring to critical
  - Developed in consultation with HSR's

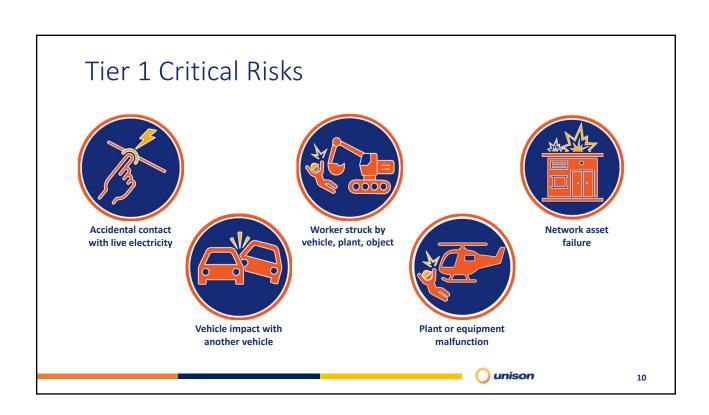
RISK SEVERITY (CONSEQUENCES)							
		Insignificant	Minor	Moderate	Major	Catastrophic	
Workplace Injury and/or Occupational Health Illness			Slight pain and/or discomfort	Superficial injury/illness that may need first aid treatment or medical assessment	Injury/illness causing temporary disability including reversible health effects. May need medical treatment and/or alternative work duties or lost time	Serious harm injury or illness causing permanent partial or temporary severe disability	Fatality or serious injury/illness causing permanent disability including irreversible health effects
			5	4	3	2	1
RISK PROBABILITY ( <u>LIKELIHOOD</u> )	Almost Certain: Is expected to occur in most circumstances	A	Low	Medium	High	Extreme	Extreme
	<b>Likely:</b> Will probably occur in most circumstances	В	Low	Medium	High	Extreme	Extreme
	Possible: Might occur in most circumstances	С	Low	Medium	High	High	Extreme
	Unlikely: Could occur in some circumstances	D	Very Low	Low	Medium	High	Extreme
	Rare: Practically impossible may occur only in exceptional circumstances	E	Very Low	Low	2 Medium	Medium	Tier 1

# Formalise Unison Critical Risks & Critical Risk Activities

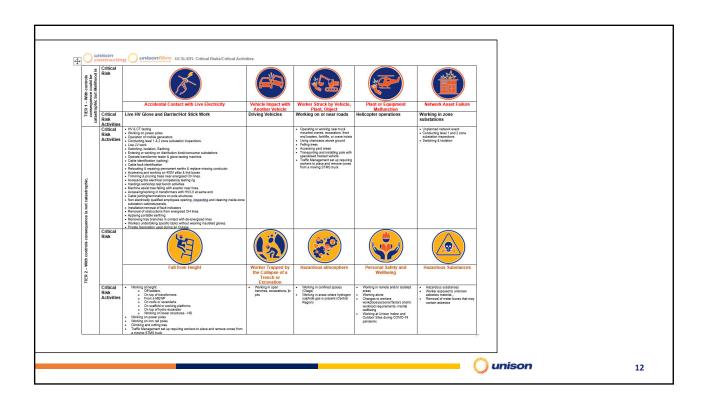
- Opportunity reassess & improve the way workplace health & safety risks are understood, managed & prevented at Unison = critical risk-based approach
- Focus our energy on risks that could result in catastrophic event if not controlled or managed as opposed to trying to manage every risk (even those that cause minor injury or illness)

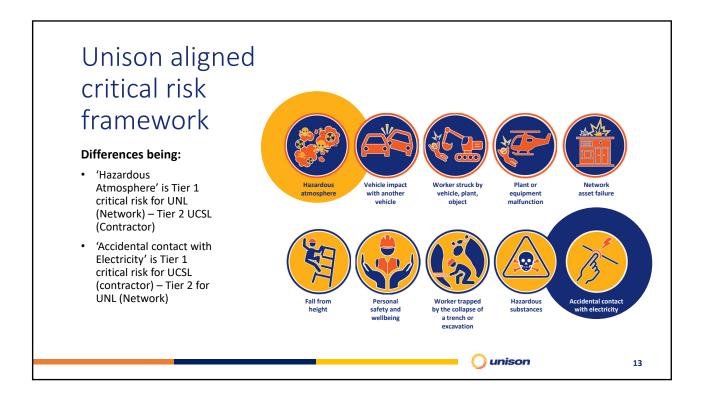
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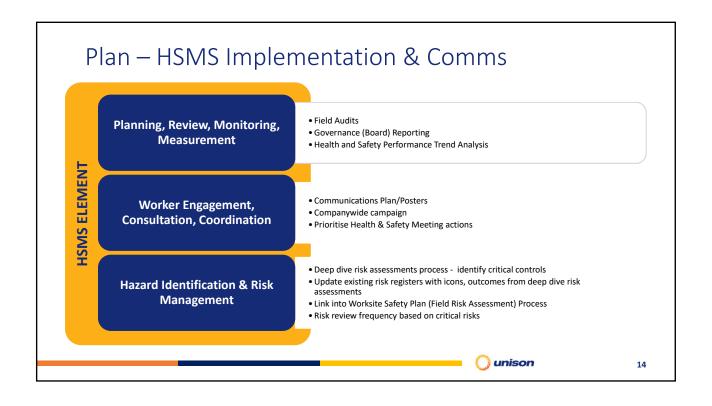
- More proactive, systemic, streamlined approach across the Unison companies bring alignment with compliance as a consequence
- Embed a critical risk framework between network, fibre and contracting Unison companies
- EEA Draft Critical Risks Guide alignment
- Focus risks with:
  - · Catastrophic (extreme) inherent risk rating
  - High residual risk rating

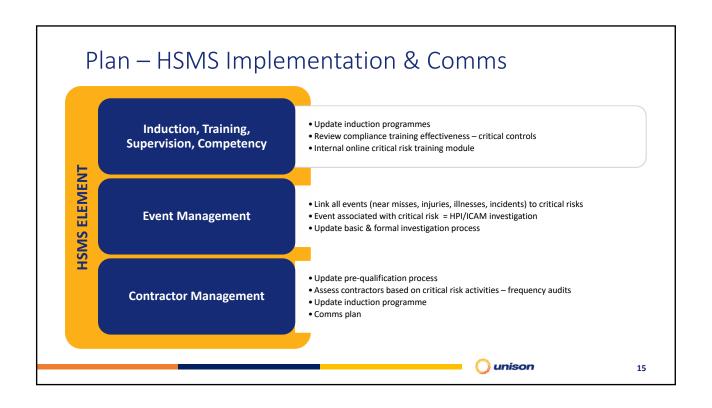


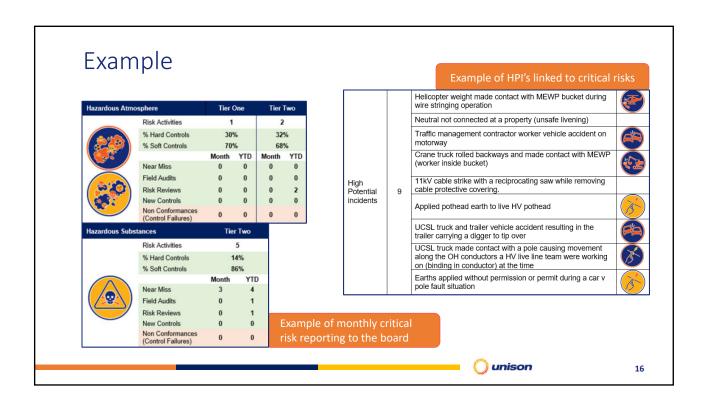












# Example Ter One | Accidental | Contact with Aracher Vehicle | Plant, Object | Plant, Object

# Formal Deep Dive Risk Assessments

Tier 1 = Critical Risk Activities











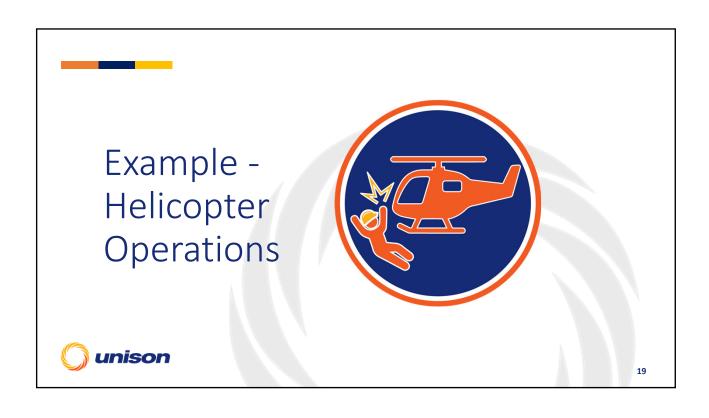
Using 'Bow Tie' risk assessment method to identify and confirm:

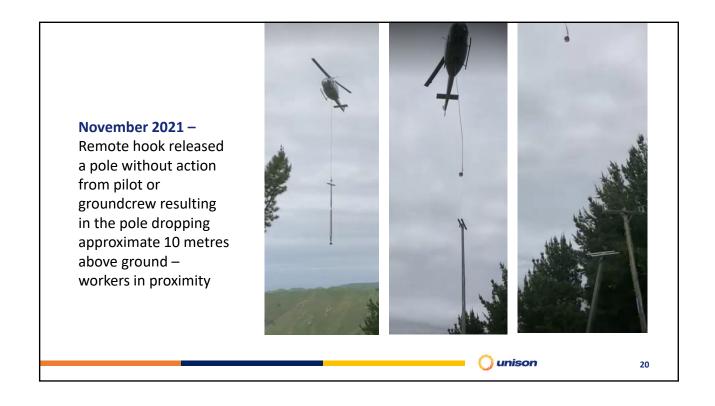
- The top event(s) that could be a catastrophic event (although rare)
- · That all hazards/threats have been identified
- Critical controls crucial to prevent Tier 1 events from occurring
- Critical detective and recovery controls
- Effectiveness of the critical controls and if they need improvement
- Whether the critical controls are being verified, monitored, or measured

The deep dive risk assessments confirmed, in particular, the critical controls, critical control owners and how each critical control is or will be verified.



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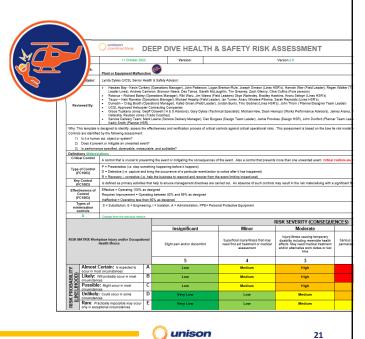


## Deep Dive Risk Assessment – Helicopter Operations

Unison Approved Helicopter Companies x 3 Operational Leaders & Staff experienced/competent in helicopter operations

### 2 Top Events:

- 1. Accidental loss of suspended load with people in the vicinity, and
- 2. Loss of aircraft which could include a UCSL employee(s) in the cockpit at the time.





10 actions to further improve effectiveness of

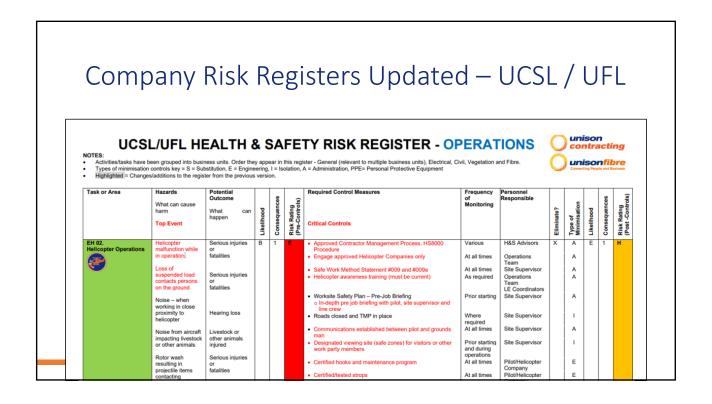
E.g. confirming suspended load weights (poles, conductor drums, soil bags, etc) recorded on WSP, wire strike awareness course staff that

critical controls:

undertake feeder patrols

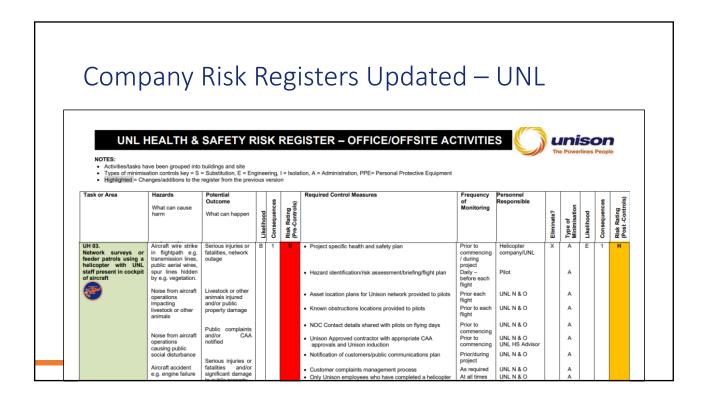
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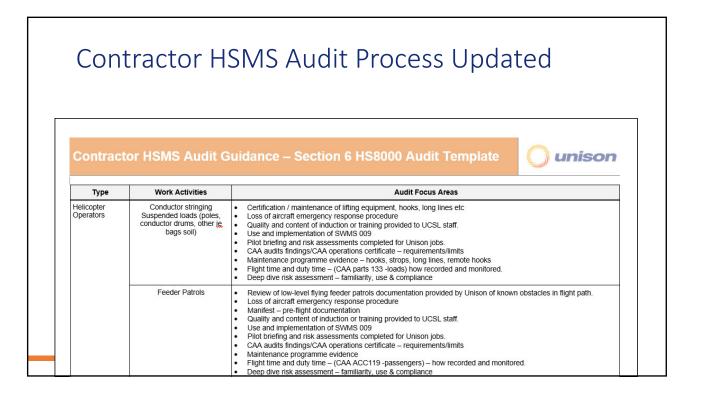


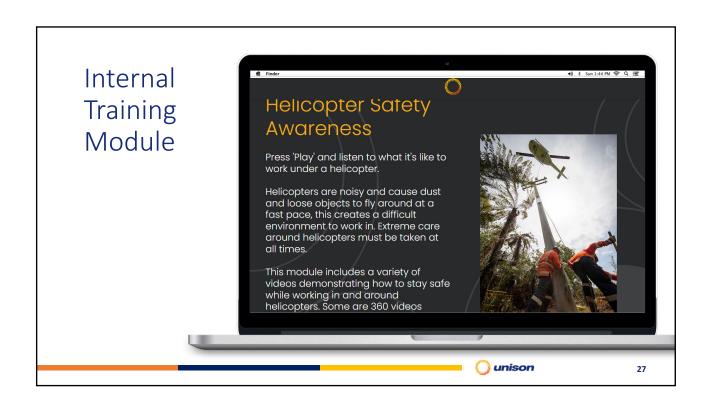


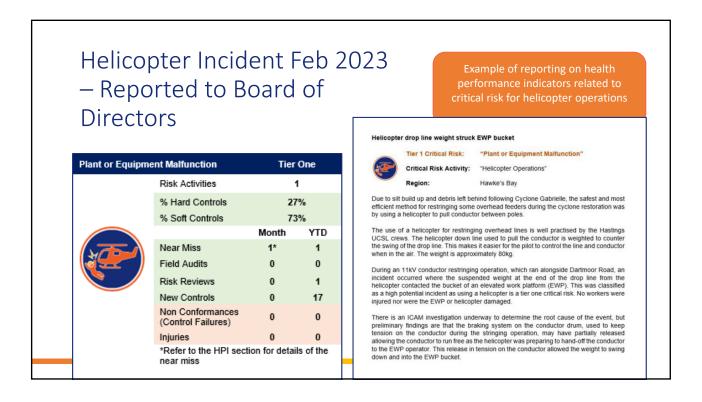
- **TCO** Could we click and bring up a couple of the controls to explain? Tracey Campbell, 2023-10-02T04:03:03.489
- **IM0 0** Yes definitely. What controls in particular were you wanting to pop out?

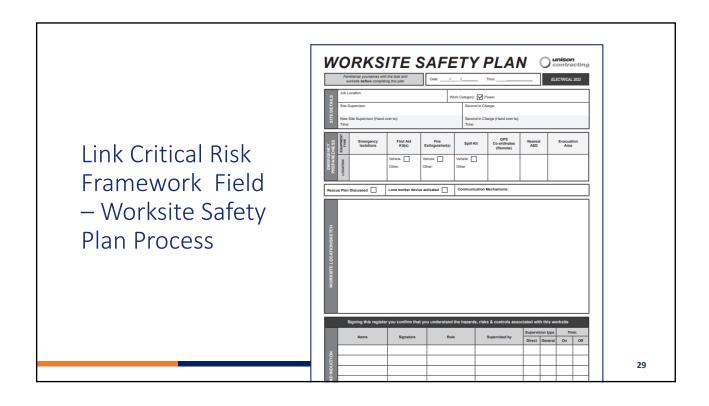
Isaiah Martin, 2023-10-02T20:17:40.564





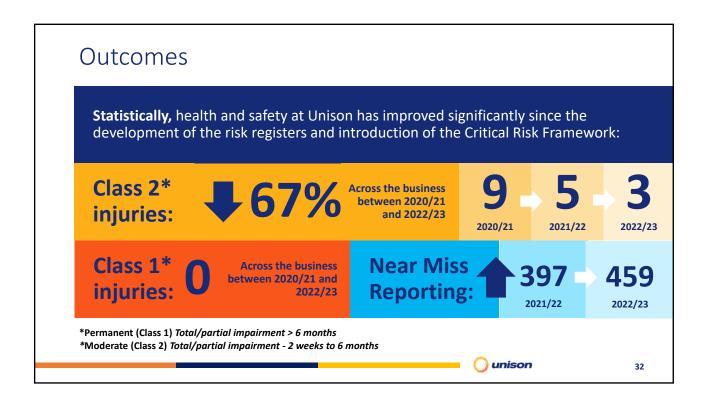




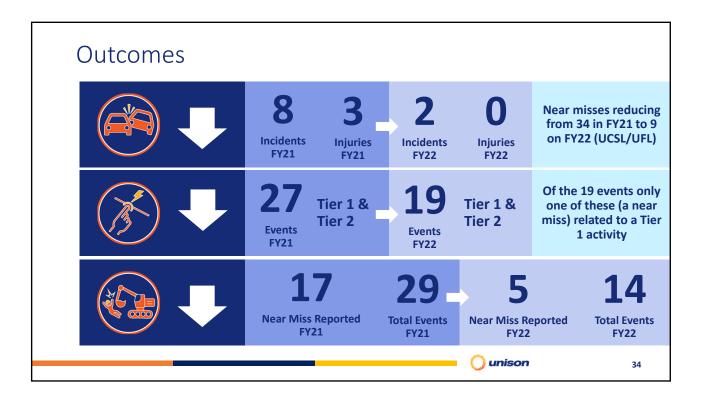












## **Outcomes**

**Culturally,** introduction of the framework has contributed to an organisation that is more aware of health and safety (including mental and physical wellbeing), and people who are more cognisant of the role they play in preventing and managing critical risks!

We have up-to-date health and safety risk registers we can confidently make use of to implement risk controls; influence content for worker inductions and training; assist with workplace field audits, tailor contractor/sub-contractor and visitor inductions and general health and safety development and awareness-raising.

We can quickly and easily identify any trends and target interventions, accordingly, ensuring efforts are directed to where they will have the most impact.



