



Case Study

Control Framework Approach to Managing Critical Risks

Presented at EEA Health and Safety Workshop 2019

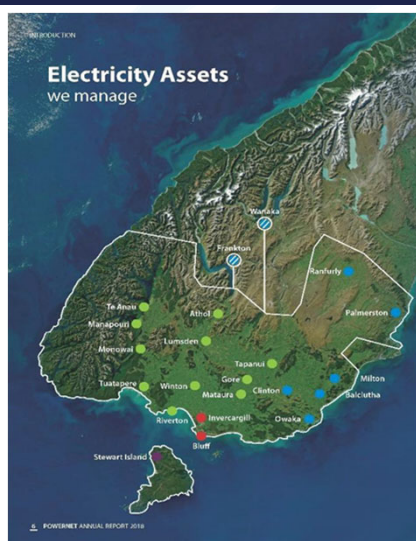
30 – 31 October in Wellington

by Graeme Webby and Michael Boyle

Safe | Efficient | Reliable
Power to Communities

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PowerNet Fact Sheet



- Jointly owned integrated electricity network management company - formed in 1994
- Invercargill based with regional offices
- Directly employs > 260 people
- Supplies electricity to 70,000 customers
- Manages significant network assets
 - 14,095kms of lines & cables
 - 160,000 poles
 - 73 Zone substations
 - 15,917 transformers



2

External Review 2016 – what is possible?

Key Recommendation:

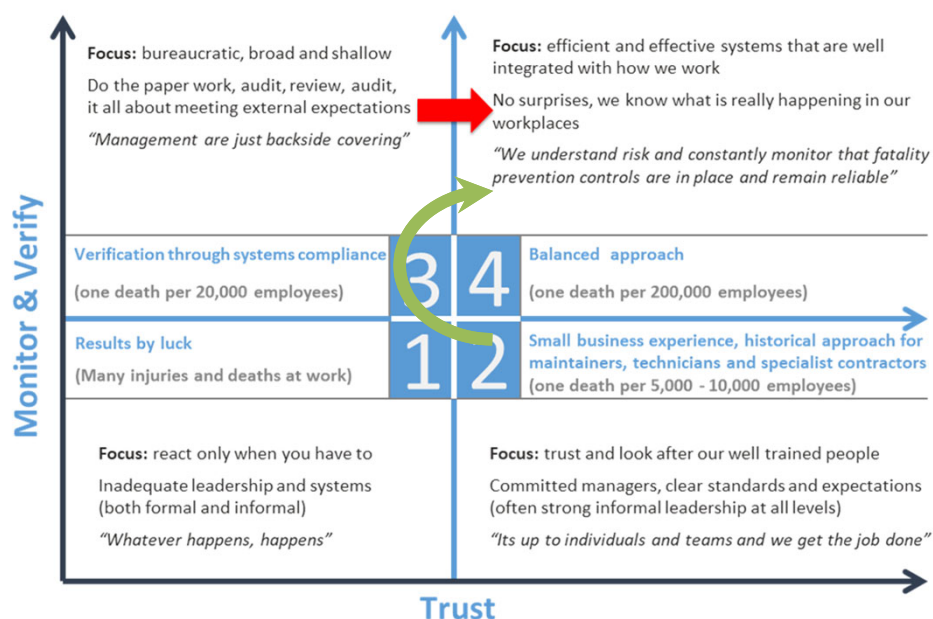
“When delivering these outcomes, PowerNet should base its design thinking for all improvement steps around improving the reliability and practical implementation of known operational controls.”

Use the Control Framework Approach!

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The Balance Opportunity – Trust and Verify Quadrant Model



Opportunities:

Quadrant 3:

organisations can use new control thinking to break out of the bureaucracy and move to Q4 operations.

Quadrant 2:

organisations can design and implement practical business processes and move directly to Q4 operation, avoiding the heavy investment and erosion of trust of Q3.

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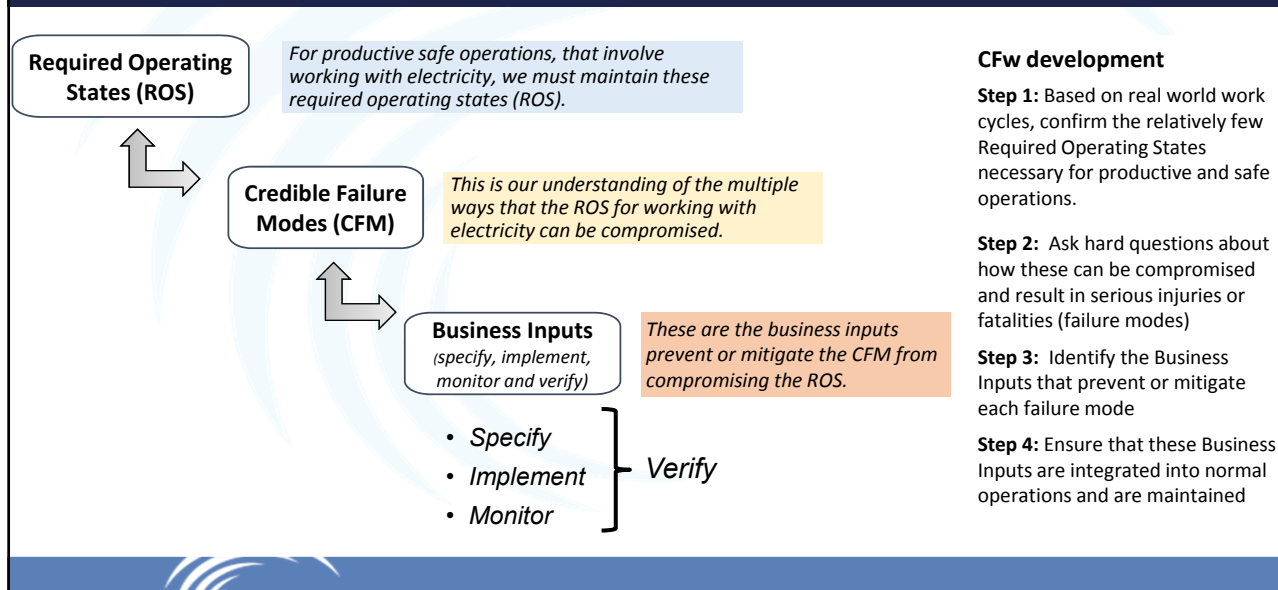
The benefits

The Control Framework (CFw) Approach

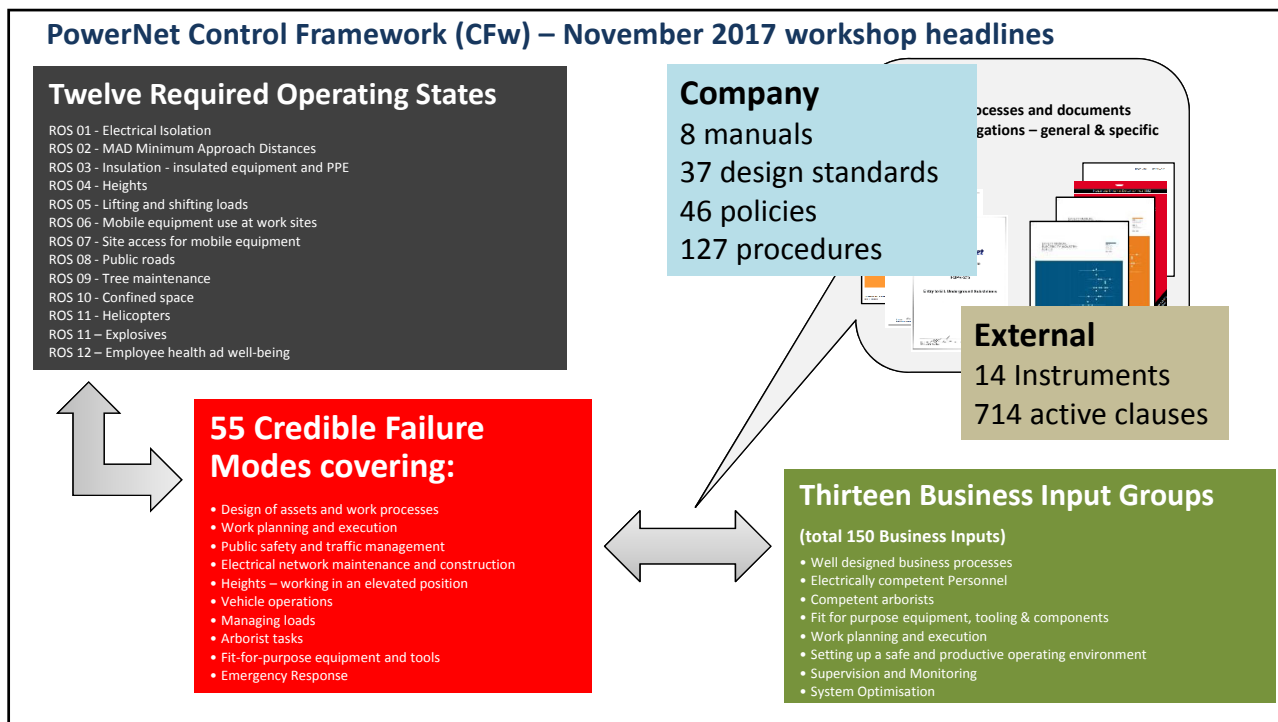
- A pivot and a refocus based on answering: *'What needs to be in place for our work to go right?'*
- Builds from and incorporates existing know how and real-world experience
- Aligns with approaches being developed by the regulator
- Confirms required operating states from a business perspective *'safe and productive outcomes are delivered when ...'*
- Is based on ongoing workgroup input, validation and improvement
- Asks and answers key questions in a style that works for end users
 - Where and how is this requirement specified?
 - How is it to be implemented?
 - How will its effectiveness be monitored?
- Logical and supported decision making on changing systems and ceasing (or not starting) non value- adding activities
 - Systematically identifies and sorts between what is required and what is clutter
 - Allows for the active mapping of business inputs to compliance outcomes

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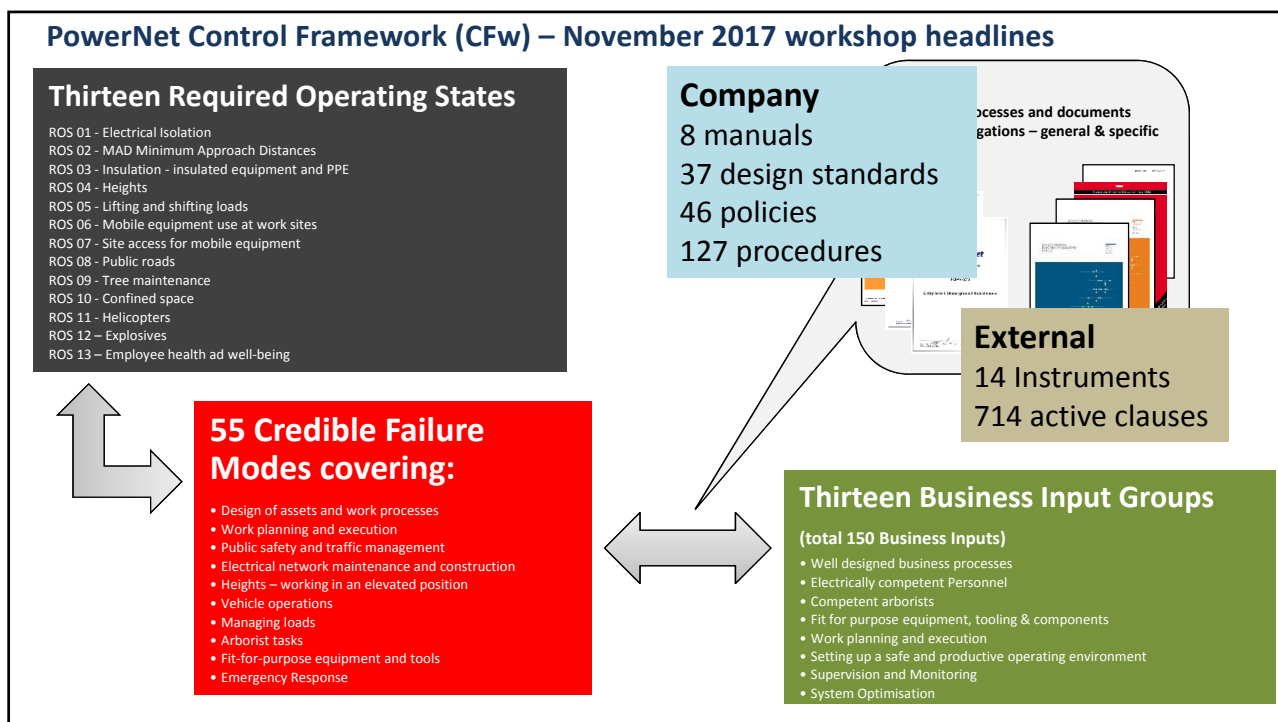
The Control Framework (CFw) Approach



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Control Framework: workforce validation – September 2018

Validation workshop objectives

Introduce control framework approach to broader PowerNet workforce

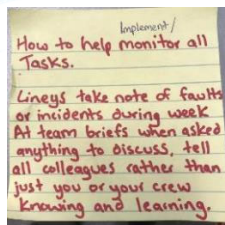
- Moving from train and trust
- New control thinking – illustrated by real examples

Validate November 2017 workshop content and approach

- Sessions for technicians (Invercargill), line mechanics and arborists
- Logic check
- Control sheet reviews for content and logic gaps

Feedback and what next?

- Will this approach add value, is the thinking and approach valid?
- Day in the life discussion to prepare for pilot



- Eight workshops @ 120 personnel
- Many improvements & updates
- Confirmed next steps for workflow integration - especially for planning



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October 2019 - Live Demonstration

So what?

And how does this help me with
STKM?

(Link out now!)



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A final word on compliance

Source	No of Expectations
Electricity Act 1992	14
Electricity Amendment Act 2001 and 2006	6
Electricity Industry Act 2010	15
ESR 2010 Regs	77
FSEB Regs	8
HSW Act	46
HSW Regs	47
IoD Governance	13
NZS7901:2014	34
SM-EI Manuals	358
Tree Maintenance COP	96
Total	714

Meeting external expectations efficiently...

...compliance for free (almost)

