

# Shared Learning

Critical Risk: Stored Energy



## Disabled Turbine Trip - Ngā Tamariki Power Station

### WHAT HAPPENED?

- During turbine valve trip testing, one of the turbine injection valves failed to close.
- Inspection revealed that the quick exhaust trip solenoid vent port had been intentionally plugged.
- The reason for the plug remains unknown; requiring tools and ladder access to disable this safety critical element (SCE).
- In any overspeed event or other critical turbine trip, this valve would have remained fully open, reducing protection from 1002 valves (stop valve or injection valve) to 1001.

### WHAT DID WE LEARN?

- Reinforces the need for regular function/trip testing.
- Emphasizes the importance of thorough SCE inspections.
- Highlights the need for workers to understand the role of SCEs and be aware of any changes — no matter how minor.

