



# Switching Review Check Sheet

Bill Doig

**Complete**

| Score          | 12 / 26 (46.15%) | Flagged items | 0 | Actions | 0  |
|----------------|------------------|---------------|---|---------|--|
| Site conducted |                  |               |   |         | Unanswered   |
| Conducted on   |                  |               |   |         | 15.12.2023 14:11 NZDT  |
| Prepared by    |                  |               |   |         | Bill Doig  |
| Location       |                  |               |   |         | Findlay Street, Hamilton East,<br>Hamilton 3216, New Zealand<br>(-37.7970607, 175.3034323) |

What type of work is being observed?

- Isolation / Relivening

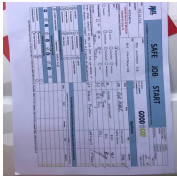


Photo 1

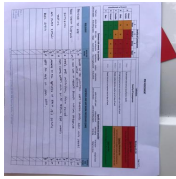


Photo 2

**Department**

3 / 7 (42.86%)

**Which craft is involved in the work**

Electrical Fitter

Other (please add note)

Trainee

Trade Coach

---

## Switching operator/s

### Record names

Hendrik van der Mark, Eumar Salmasan, Marcus Fletcher, Kaya Turner & Bill Doig

---

**Observations**

7 / 12 (58.33%)

**What did you note?**

|                                |                                    |   |
|--------------------------------|------------------------------------|---|
| Planned sheet used             | Instructions taken at device       | Personalised markings used on sheet to guide operator         |
| Sheet was taken to each device | Device cross referenced with sheet | Equipment inspected for integrity prior to taking instruction |
|                                |                                    | Correct PPE worn  |

Marcus was methodical with the taking of instructions from Syscon, marking this on the switching sheet, and signing off when each action was completed.

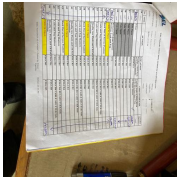


Photo 3

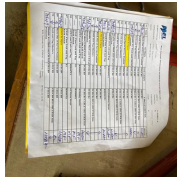


Photo 4

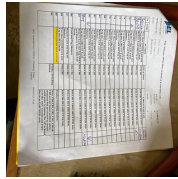


Photo 5

**Close approaches/Live Lines**

1 / 3 (33.33%)

**What did you note?**

Other (please add Note)

Not applicable

---

## List/Summary

### List other observations

Removal of the VT requires climbing up onto switchgear as there is no rear access. As this was a total bus outage, there is no need to remove the VT from service. A more ergonomic solution would be remove the VT fuses to prevent a potential back feed and locate the fuses on the front face of the switchgear panel. This will remove the need to clamber up onto the switchgear



Photo 6



Photo 7



Photo 8

### Summary of method used by field switcher:

Good knowledge of locking and tagging requirements and testing of switchgear spouts before application of the bus earth truck



Photo 9



Photo 10



Photo 11



Photo 12

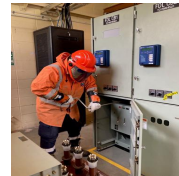


Photo 13



Photo 14

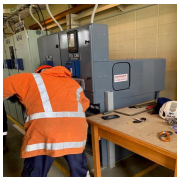


Photo 15



Photo 16

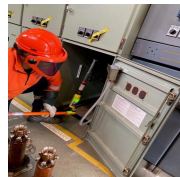


Photo 17



Photo 18

### Do you or the Switcher have any pro tips to avoid incidents?

Marcus showed good technique and is a competent substation switcher. Experience will grow with increased exposure to this environment

# Media summary

Photo 1

Photo 2

Photo 3

Photo 4



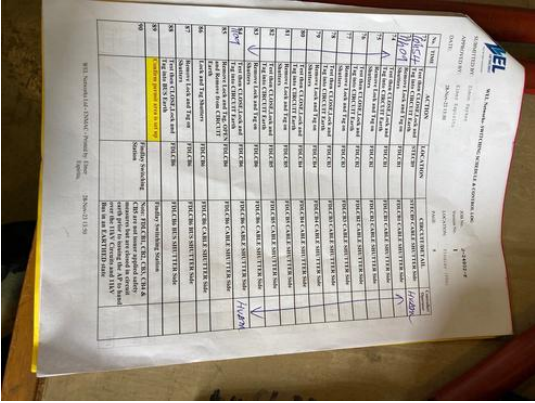


Photo 5



Photo 6



Photo 7



Photo 8



Photo 9



Photo 10



Photo 11



Photo 12



Photo 13



Photo 14



Photo 15



Photo 16



Photo 17



Photo 18