



SAFETY ALERT



LV Works Management Exemplary Switching for Isolation

WEL workers identified a worksite planned to be de-energised was live.

WEL Done: *The switching was written to ensure staff safety by testing at the work site prior to bond application at the isolation point. The field operator has completed the switching under instruction from SYSCON. Field operator submitted a network defect to map the transformer circuits and correct the GIS data.*

23 September 2024

The planned work on WEL's LV network was for the replacement of two gyro pillars on the same circuit outside the SYSCON controlled LV area. The work request was for work to be completed under a LV access permit.

Hierarchy of safety controls for LV work methodology is to first complete the work **Isolated and Bonded** with a LV Access Permit, if it is not practical to bond then complete the work **Isolated Only** with a Live LV Work Permit and task specific procedures. If it cannot be isolated and it is safe to do so, then complete the work **Live** with a Live LV Work Permit and task specific procedures.

Due to the operational restrictions on J-Type fuse frames, transformer T1850 required isolation (Switching Step 6) to open unit 3 fuses for circuit isolation (Switching step 7). The transformer was then energised (Switching step 8). The switching then required testing to prove de-energised at the **WORK SITE** pillars S903 & S906 (Switching step 9). When completing this switching step, the field operator found the pillars S903 & S906 were still **LIVE** and unit 3 was not the correct isolation point.

The field worker and SYSCON discussed the incorrect isolation point, deeming it was not practical to determine the correct isolation point through further switching and therefore systemically re-livened unit 3 customers.

The Field operator submitted a network defect to map the transformer circuits and correct the GIS data.

Recommendations:

- A. Continue to write switching to ensure work site is de-energised prior to bonding at the isolation point.
- B. Field operators continue following switching steps under instruction from SYSCON
- C. Field operators continue to submit network defects to correct GIS data in our system.

WEL Networks - SWITCHING SCHEDULE & CONTROL LOG

SUBMITTED BY: ██████████ JOB No. 2-53999-E
 APPROVED BY: ██████████ Version No. 1
 DATE: ██████████ LOCATION: ██████████
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No.	TIME	ACTION	LOCATION	CIRCUIT/DETAIL	Controller/Operator
1		Schedule	32 & 44 Lilac St	Replace S903 & S906	
2				Shutdown Proposed Date: 19/09/2024 Shutdown Start Time (24Hr): 09:00 Shutdown End Time (24Hr): 09:30 Transformers affected: T1849 & Rest of T1850	
3				Shutdown Proposed Date: 19/09/2024 Shutdown Start Time (24Hr): 09:00 Shutdown End Time (24Hr): 15:00 Transformers affected: T1850LV3 cct	
4		Tele Disable Auto reclose	CBX144	Auto Reclose	
5		Confirm ALL pre outage tests and status checks have been completed	S903 & S906	32 & 44 Lilac Street	
6		Open	AB1911	122 Collins Road	
7		Open LV and Tag	T1850LV3	-21 Lilac Street	
8		Close	AB1911	122 Collins Road	
9		Prove de-energise	S903 & S906	32 & 34 Lilac Street	
10		Prove de-energise and apply Bonds	T1850LV3	cable terminations	
11		ISSUE LV Access Permit	Lilac Street	PTW-53999-E on LV cable between T1850LV3 - S903 - S906	
12		Return and CANCEL Access Permit	Lilac Street	PTW-53999-E on LV cable between T1850LV3 - S903 - S906	
13		Remove Bonds	T1850LV3	cable terminations	
14		Confirm Bond Free and ready to live	T1850LV3 - S903 - S906	32 & 44 Lilac Street	
15				Shutdown Proposed Date: 19/09/2024 Shutdown Start Time (24Hr): 14:30 Shutdown End Time (24Hr): 15:00 Transformers affected: T1849 & Rest of T1850	
16		Open	AB1911	122 Collins Road	
17		Remove Tag and Close LV	T1850LV3	-21 Lilac Street	

For further information contact: The WEL Networks Health & Safety Team.