



### What is the issue?

On Tuesday 3 February 2015, a serious incident occurred at Galleria shopping centre, Morley, Western Australia. The incident involved an explosion associated with the private electricity distribution network within the shopping centre.

Several persons were injured during the incident and two persons have since died from the injuries sustained during the incident.

WorkSafe WA and EnergySafety are investigating the incident and will share learnings when they can.

### What are the changes?

Engineering are currently reviewing maintenance practices, testing and intervals for any improvements.

System Control is currently reviewing all operating practices associated with oil switch and fuse-switch units.

As a precautionary measure, pending the conclusion of an internal review or if further information becomes available; Endeavour Energy has implemented the operational restrictions below with immediate effect. These restrictions remain in place until further notice.

### What you need to do

All operations on Long and Crawford / GEC / LUCY / Reyrolle / Statter HV oil insulated fuse-switch units (e.g. GF3, T30F, JKSS, ROK, ETV) shall not be operated in an energised state irrespective of last maintenance;

This also includes any other oil immersed HV fuse-switch units not listed above;

Operation of HV oil insulated ring-main switch units shall not be performed in an energised state unless the apparatus has been maintained within its respective maintenance cycle (i.e. not overdue);

Re-energisation of a high voltage oil insulated fuse-switch, or ring-main-unit outside its maintenance cycle shall be completed via a remote circuit breaker or switch;

Prior to re-energisation of a high voltage oil insulated fuse switch or ring-main switch outside its maintenance cycle; the location within which the fuse switch or ring-main switch outside its maintenance cycle is housed must be vacated and secured to prevent any person from accessing or coming near the location whilst re-energisation takes place.

Any oil switch or oil fuse-switch units that have not been maintained within their maintenance cycle shall be pin defected advising the apparatus should not be operated energised.

There are *no* additional restrictions regarding general access to substations containing high voltage oil insulated switchgear.

There are *no* additional restrictions on the operation of appropriately maintained oil circuit-breakers in zone-substations.

### Contact

For further details:

Colin Crisafulli, Network Substations Manager on 8 6017

Jason Sin, Network Field Resource Manager on 8 6324

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### Related documents

- SMI 100 – Minimum requirements for maintenance of transmission and zone substation equipment
- SMI 212 – HV switch and switch fuse units
- NCB 4393 – Long & Crawford TG/GF3 ring-main-unit
- NCB 4397 – Long & Crawford switchgear
- WCB 2036 – 11kV Switchgear operating instructions - GEC
- GSY 1066 – Worksite Hazard and Risk Assessment



Figure 1. GEC T30F



Figure 2. Long & Crawford GF3



# SAFETY BULLETIN

Explosion in Morley, Western Australia

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Figure 3. Long & Crawford T3 GF3



Figure 4. LUCY oil switch



Figure 5. ALM Dulmison Oil Switch



Figure 6. Statter / Mirra VL oil switch



Figure 7. Long & Crawford ETV2 oil auxiliary switchgear (Carramar ZS)

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Owner: Colin Crisafulli, Network Substations Manager

Approver: John Curran, Manager Safety & Environmental Services

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