

Substation Poor Housekeeping

ISSUE IDENTIFIED:

Transpower is undertaking regular site risk reviews to confirm that critical controls for it's High Impact Risks are in place. These reviews are regularly identifying examples of poor "housekeeping" practices that are putting Transpower substations at a much greater operational risk than is acceptable.

Examples of Inadequate housekeeping:

- Vermin controls (dead vermin, droppings)
- Building integrity damage (holes not blocked)
- •Unauthorised equipment stored in restricted areas
- •Valuable spares exposed to elements left forgotten
- Hazardous/flammable materials in inappropriate places
- •Old dusty uncontrolled drawings in protection panels
- •Cut/taped wires/cabling left with temporary isolations
- Portable appliances, fire extinguishers out of certification
- •Wiring debris, rubbish and dust in panels
- •Panel doors not fitted or not secured
- Control panels not labelled
- Rodent chewing damage on cables and terminals
- •Old rodent bait discarded onto switchyard gravel
- Metallic debris in switchyard gravel
- •Loose protection/control wiring relays not connected
- Fuse/isolation links missing (redundant or operational)







CONTIBUTING FACTORS:

- Monthly and Annual site inspections are failing to raise or address these deficiencies with Transpower
- •TP.SS 02.41 and SMP 02.41.007/008 not correctly followed by majority of service providers
- Project housekeeping and site handovers to Maintenance Service Providers adding to unacceptable conditions

ACTIONS REQUIRED TO PREVENT REOCCURENCE:

- •<u>ALL</u> Transpower **Job Managers** must address issues at sites they are responsible for, to ensure Housekeeping requirements of TP.SS 02.41 Appendix C are being complied with
- •Service Delivery Managers must address any existing deficient sites with their Service Providers and establish an action plan to address these deficiencies
- •Service providers are reminded that tasks in SMP 02.41.007/008 must be followed when undertaking inspections
- •Transpower will communicate additional alerts as required for specific housekeeping focus areas

LEARNINGS FROM THIS

- There has been some good work done with a number of findings already listed as defects in Maximo
- Ongoing reporting and prioritisation of defects is essential, to ensure focus on getting things done
- Report findings related to Connected Parties at our sites to Service or Project Delivery Manager



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