

# ASP Safety Alert Electrical Safety & Compliance

**Alert Number: SA06\_20**

**9 July 2020**

**Subject: Resumption of Stage 2 Live Work Tasks**

Dear Authorised Ausgrid ASP

This alert confirms that from 9 July 2020, appropriately authorised Ausgrid employees and, where appropriate, external partners and ASPs, will be able to perform the following Stage 2 Live Work Tasks (in accordance with the Electrical Safety Rules (**ESR**)):

1. connecting a mobile generator to the low voltage (**LV**) network;
2. work on or near Extra Low Voltage (**ELV**) (25-50V nominal AC, 60-120V nominal DC) exposed conductors;
3. connecting temporary measuring and recording instruments to the low voltage network;
4. cable pulling into live underground assets;
5. installing or removing low voltage equipment (fuses, links and spreaders) *excluding conductor re-tensioning*;
6. maintaining or repairing low voltage overhead conductors and accessories;
7. maintaining or repairing low voltage underground conductors and accessories; and
8. working on isolated high voltage assets above live low voltage (within minimum safe working distances).

A full list of allowable Live Work Tasks is in [Appendix A](#) of the ESR (**attached**).

We remind ASP companies that they cannot perform live work until they have returned their *ESR ASP Company Acknowledgement* form to Ausgrid. ASP companies that have already completed and returned their *ESR ASP Company Acknowledgement* form **do not need to take any further action**.

We are continuing to progress the Live Work Project and look forward to sharing more information about Stage 3 of the Project with you soon.

We understand that this has been a difficult period and thank you for your collaboration, patience and support to achieve a safer work environment for everyone who works on or near the live network.

If you have any questions, please email [livework@ausgrid.com.au](mailto:livework@ausgrid.com.au).

**Regards**

**Trevor Armstrong**  
Chief Operating Officer - Ausgrid

# Electrical Safety Rules - Appendix A

## Work on or near live exposed low voltage mains and apparatus

30-June-2020

### Task list

Apparatus	Scenario	Low Voltage Task examples	Allowed	Stage
Overhead mains - exposed conductors	<b>Work on or near overhead conductors that are fixed in their usual position</b>			
		Install/remove temporary insulation	Yes	1
		Erect/remove/retension an overhead (OH) service	Yes	1
		Connect/disconnect an overhead service	Yes	1
		Make/break parallel or no-load conductor connections (bonds/taps/IDTs)	Yes	1
		Connect/disconnect temporary bonds/"jumpers"	Yes	1
		Install/connect/disconnect/remove/repair streetlighting assets	Yes	1
		Connection and disconnection of equipment for cable testing/identification/phasing to isolated LV apparatus within 500mm of temporarily insulated live exposed LV apparatus	Yes	1
		Erect/remove/retension overhead LV ABC 25mm <sup>2</sup> road crossing mains (to Ausgrid lead-in pole)	Yes	1
		Connect/disconnect overhead LV ABC 25mm <sup>2</sup> road crossing mains (to Ausgrid lead-in pole)	Yes	1
		Install/remove overhead high voltage (HV) portable earthing equipment - to or through LV overhead-mains.	Yes	1
		Connect/disconnect mobile generators - in accordance with Network Standard NS196	Yes	2
		Connect/disconnect measuring/recording instruments	Yes	2
		Repair conductor (not involving a change in conductor tension)	Yes	2
		Replace a conductor tie on a pin insulator	Yes	2
		Install/remove LV spreaders	Yes	2
		Remove vegetation/debris/animals from LV mains	Yes	2
		Replace LV links	Yes	2
		Replace an LV insulator (involving the movement of an exposed conductor under tension)	No	
	Overhead mains - exposed conductors	<b>Fallen overhead conductors</b>		No
Work on or near fallen live exposed conductors (when standing on the ground)				
<b>Poles &amp; crossarms</b>		Erect/remove pole through exposed LV	No	
		Pole changeover - exposed LV	No	
		Pole changeover - LV ABC mains	No	
		"Crop" a pole	No	
		Replace a crossarm	No	
<b>UGOHs</b>		Connect/disconnect parallel or no-load UGOH to OH mains connections (excluding CONSAC)	Yes	1
		Connect/disconnect UGOH service to OH mains (excluding CONSAC)	Yes	1
		Erect/remove UGOH service - live OH mains but isolated service	Yes	1
		Erect/remove UG cable for LV distributor UGOH	No	
		Transfer live UGOH from one pole to another	No	
		Erect/remove UG cable for HV UGOH through live exposed LV conductors	No	
<b>Moving de-energised conductors in the vicinity of live exposed LV</b>				
Safety Alert 13-14_007		Work on isolated HV mains and apparatus (where the worker moves within MSWD of live LV)	Yes	2
	Erect/remove overhead conductors above, below, across, or adjacent to live exposed LV	No		
	Erect/remove pole stay wire alongside or through live exposed LV	No		
<b>Mains Connection Boxes (MCBs)</b>		No		
Work on OH mains connection box on a customer installation				
Pole subs	<b>General</b>			
	Install/remove temporary insulation	Yes	1	
	Make/break parallel or no-load conductor connections (downstream from LV fuses)	Yes	1	
	Erect/remove/retension a service	Yes	1	
	Connect/disconnect a service	Yes	1	
	Connect/disconnect measuring/recording instruments (excluding MDIs or DM&C)	Yes	2	
	Erect/replace a transformer tank	No		
Replace LV fuse assembly	No			
Underground mains	<b>Pillars (other than the specific pillars listed below)</b>			
	Connect/disconnect a service	Yes	1	
	Make/break parallel or no-load conductor connections connections - for solid connections of polymeric insulated cables - in pillars other than link pillars	Yes	1	
	Connect/disconnect equipment for cable testing/identification/phasing to isolated LV apparatus within 500mm of temporarily insulated live exposed LV apparatus.	Yes	1	
	Connect/disconnect measuring/recording instruments	Yes	2	
	Pull de-energised service cable into a pillar with live exposed LV (cable ends must not be exposed)	Yes	2	
	Pull de-energised LV distributor cable into a pillar with live exposed LV (cable ends must not be exposed)	Yes	2	
	Replace a non-metallic pillar base (including for minor changes in ground level)	Yes	2	
	Replace metallic pillar	No		
	<b>Pillars (specific) - See NS199</b>	Work on or near exposed live LV in the front of "Town" style pillars	Yes	1
		Work on or near exposed live LV in the rear of "Town" style pillars	No	
		Work on or near exposed live LV in non-retrofitted steel framed URD pillars	No	
		Work on or near exposed live LV in non-retrofitted "Menai" style pillars	No	
		Work on or near exposed live LV in "Tom Thumb" style pillars	No	
		Work on or near exposed live LV in CSB style (Mackellar) pillars	No	
		Work on or near exposed live LV in SDP style (St George) Pillars	No	
		Work on or near exposed live LV in an Upper Hunter round style pillar	No	
		Work on or near exposed live LV in a non-retrofitted pillar-standard	No	
		Work on "Fargo" UG connectors (Muswellbrook)	No	
	<b>Pits/bays</b>	Work on or near exposed live LV in a cable pit or joint bay	No	
		Work on or near exposed live LV in "pit & duct" systems (see NS199)	No	
	<b>Cables</b>	Work on cores or sheath of CONSAC cable	No	
		Work on HDPE cable with visible damage	No	
		Cable jointing in a cable pit or joint bay	No	
		Carry out repairs to cable sheath	No	
	<b>Standards</b>	Work on or near exposed live LV in a retrofitted Pillar/Standards (refer NS199)	Yes	1
		Work on or near exposed live LV in non-retrofitted Pillar/Standards (refer NS199)	No	
		Replace metallic column or pillar-standard	No	
<b>Services</b>	Connect/disconnect a service in a pillar as permitted by Network Standard NS199	Yes	1	
	Work on bakelite service termination boxes on customer installations	No		
	Work on metal clad service enclosures 'Handbag connections'	No		
	Erect/remove temporary insulation to live exposed LV - SAIF board busbar (rear of switchgear) in a Kiosk	No		
	Erect/remove temporary insulation to live exposed LV - other than above	Yes	1	

# Electrical Safety Rules - Appendix A

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30-June-2020

### Task list

Apparatus	Scenario	Low Voltage Task examples	Allowed	Stage
Kiosk & chamber Substations		Connect/disconnect equipment for testing/identification/phasing to isolated LV apparatus within 500mm of temporarily insulated live exposed LV apparatus.	Yes	1
		Connect/disconnect mobile generator - as per Network Standard NS196	Yes	2
		Connect/disconnect measuring/recording instruments - excluding MDIs or DM&C	Yes	2
		Install/remove apparatus labels	Yes	2
		Pull de-energised cable into a kiosk substation with temporarily insulated live exposed LV apparatus (cable ends must not be exposed)	Yes	2
		Pull de-energised cable into a kiosk substation with SAIF LV board (cable ends must not be exposed). Note: MSWD from exposed busbar at rear of switchgear must be maintained, or exposed busbar must be isolated	Yes	2
		Pull de-energised cable into a chamber substation within 500mm of temporarily insulated live exposed LV apparatus (cable ends must not be exposed)	Yes	2
		Work, using live LV controls, on or near de-energised direct distributors where isolation from the customer switchboard is not possible	Yes	2
		Accessing/working in substation tunnel boards with exposed LV covered with temporary insulation	Yes	2
		Make or break isolated LV cable connections to isolated distributor terminals within 500mm of temporarily insulated live exposed LV apparatus (other than SAIF LV boards)	Yes	2
		Make or break isolated LV cable connections to isolated distributor terminals on a SAIF LV board with the busbar isolated (other distributor cables may remain live if insulated in accordance with DG182)	Yes	2
		Make or break isolated LV cable connections to isolated distributor terminals on a SAIF LV board in a Kiosk substation with the exposed busbar remaining live	No	
		Drill a hole in live LV switchgear/board	No	
		Install Maximum Demand Indicators (MDIs) or Distribution Monitoring and Control (DM&C) equipment	No	
		Make or break live conductor connections	No	
		Install/remove/replace LV fuse strip	No	
		Work behind E-type boards in a chamber sub - as per DG182 (due to arc hazard)	No	
		Replace transformer (tank) in a kiosk or chamber substation - with live LV	No	
		Replace LV board or panel in kiosk or chamber substation	No	
		Replace kiosk housing	No	
	Connect/disconnect temporary "Jumper" cables in CBD subs - Transformer end	No		
	Connect/disconnect temporary "Jumper" cables in CBD subs - Distributor end	No		
Zone Subs		Install/remove temporary insulation	Yes	2
		Work near live exposed LV covered by temporary insulation	Yes	2
Streetlights		Install/remove temporary insulation to overhead street lighting conductors	Yes	1
		Lamp and PE cell replacement	Yes	1
		Install/replace/remove streetlight bracket	Yes	1
		Connect/disconnect/ luminaire	Yes	1
		Replace luminaire (live)	No	
		Any work on or near live exposed LV conductors in a metallic streetlight standard	No	
		Work on or near exposed live LV in non-retrofitted Pillar/Standards (refer NS199)	No	
		Replace metallic streetlight standard column or pillar-standard	No	
	Any work on or near live exposed LV conductors in a metallic streetlight control point (SLCP)	No		
ELV		Work on live exposed Extra Low Voltage (ELV) conductors	Yes	2