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Policy Newsletter

April 2023

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April policy updates



Ref	Issue	Title
CP411Pt1N	15	LV Cable Jointing Manual
CP411Pt2	5	6.6kV & 11kV Cable Jointing Manual
EPD350	6	Protection for 132kV, 33kV, 6.6/11kV Systems
ES400J3	3	Specification for Low Voltage Cable Joint Shells
CP414	1	33kV Gas Insulated Cable Jointing Manual

April archived policies



Ref	Issue	Title	Reason for Archive
CP608 A10 Appendix I	12	Point of Work Risk Assessment	Electrical feasibility and POWRA combining into Tree Cutting POWRA which will now be appendix H.
CP608 A10 Appendix H	15	Electrical Risk Assessment and Feasibility Study	Electrical feasibility and POWRA combining into Tree Cutting POWRA which will now be appendix H.

Major policy updates

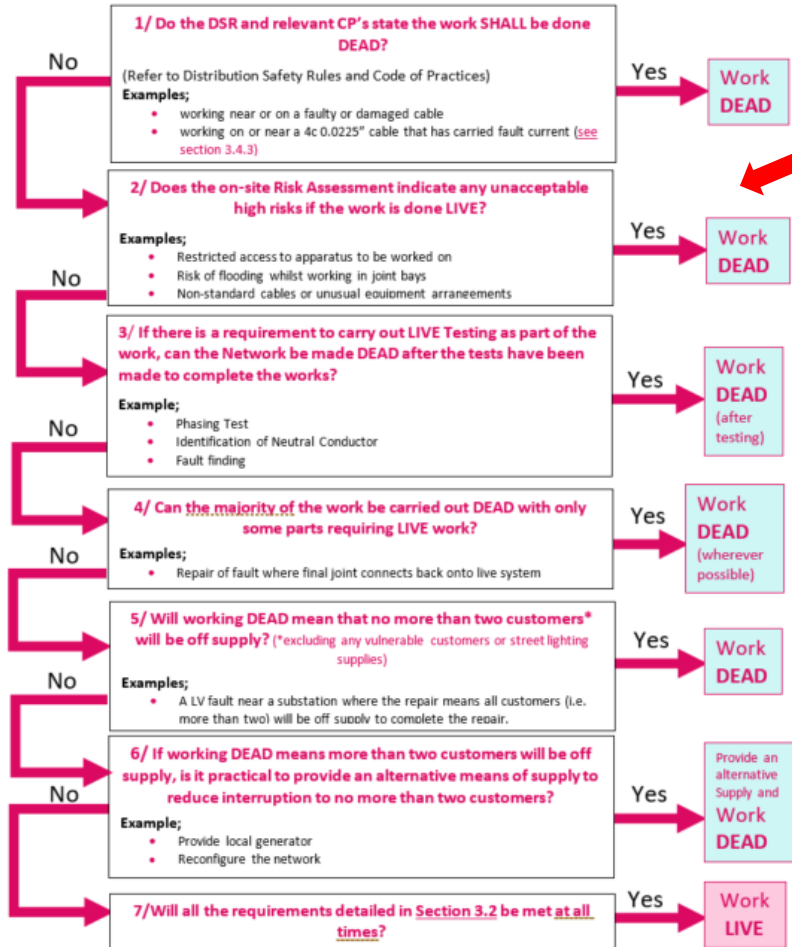


CP411Pt1N – LV Cable Jointing Manual



3.3 Decision Chart to Justify Working Live

The following chart can be used for guidance on making the decision to work live, and the justification for working live shall then be recorded on the POWRA.



Following internal audit the following has been added:

- General Requirements – New decision flow chart for justification for working live, with option to work dead if no more than two customers will be off supply
- Standard Technique 16.1 – New Procedure for opening of Cable Ducts
- Standard Technique 8 – Addition of JEM1X resin for Sicame link boxes and use of metal clips in cable joint shells
- Standard Technique 14 – Update on information about proving units to match Safety Bulletin 20/2/22 regarding PU2/4 units
- Instructions M9/M10 and M12 revised drawing to remove statement about waveform wires behind sheath (based on feedback from Steve Sharp)
- Section 4 – Tools and Equipment Index updated to include latest Martindale proving unit, new Stanley tin snips
- Section 5 – Miscellaneous instruction SWA2 updated to remove duplication of SWA1 information.




Raised to issue 5 and the following changes have been made:

- Standard Technique 64 – Updated methods for removal and refilling of legacy cable boxes with Guroflex compound
- Standard Technique 67 – Creation of new technique covering decompounding (breaking down) of legacy cable boxes filled with bitumen oil based compounds
- Section 2 - Standard Technique 68 –New Technique on application of Greases
- Section 3 – New procedure 8-018 for 400mm² “ALL COPPER” straight joint
- Section 4 – Tools & Equipment Index updated to show paddle mixer and various other additional tools



**NEW
POLICY
ALERT!**

	BREAKING DOWN BITUMEN COMPOUND FILLED CABLE BOXES	Standard Technique 67
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3 Preliminary Operations

Refer to Standard Technique 1 where applicable.

4 Approved Equipment


Refer to Section 4 of this CP – Tools and Equipment Index for complete list of Approved items

5 Breaking Down Bitumen filled cable box

Equipment Shall be released for work as required by the Distribution Safety Rules.
Establish from the Engineer/SAP if the cable box to be worked on is to be re-used for connection of a new polymeric cable and refilled with Guroflex compound.

- Some transformer cable boxes utilise brass thimble connections which are soldered onto the cable ends. This type of cable box cannot be re terminated.
- Before starting, ensure that the new triplexed cable will pass through the gland / gland plate on the bottom of the box. If it doesn't, then the gland plate will have to be remade or the switchgear must be replaced.
- Any box that is to be reused should be broken down in stages taking care to ensure no mechanical damage is made to the bushings.

**Ensure there is enough room around the box to work comfortably and set up equipment.
Ensure the space is adequately lit.**

 **Indoor sites should be well ventilated – leave building doors open to create air movement and if natural ventilation cannot be achieved e.g. in basements, then use a respirator mask.
Ensure the working area is suitable protected from leaking compound – lay plastic sheeting on floor.**

1. If the cable is being removed, cut the 11kV cable under the plumb and position a large cardboard box to catch melted cable box compound below the cable box - fill cardboard box with 50mm layer of sand to prevent leakage of molten compound.
If cable is to be kept connected, place cardboard box under the gland.
2. Remove the filler cap and drain plug - then remove all but two (one each side) of the front cover bolts.

Issue 1 March 2023	Section 2 CP411 Part2 - 6.6/11 kV Cable Jointing Manual © Electricity North West 2023	Page 2 of 4
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Electricity Policy Document 350

Issue 6 March 2023

Protection for 132kV, 33kV and 11/6.6kV Systems



Additional definitions added to cover new systems in use and the document updated with these throughout. Updated specific sections on current protection systems in use



Specification updated to new template and new issue.

Standby earth fault protection provides protection to the NER and final feeder protection in the event of a 'stuck breaker' situation. The standby earth fault protection shall use an inverse time characteristic (usually LTI) to ensure appropriate tripping times and discrimination and shall be arranged to be a 2 stage scheme at BSPs. The standby earth fault protection on each of the 33kV incomers shall have a first stage that trips the local 33kV breaker. After a further short time delay the second stage shall trip/intertrip the remote 132kV circuit breaker.

Mar 23





Electricity Specification 400J3

Issue 3 March 2023

Low Voltage Cable Joint Shells



Update of specification in anticipation of LV cable jointing tender to be issued approx. September 2023 for placement in March 2024.



Specification updated to new template and new issue.

Minor policy updates





CP414 – 33kV Gas Insulated Cable Jointing Manual

- Updated to new template.