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Policy Newsletter

March 2023

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March policy updates

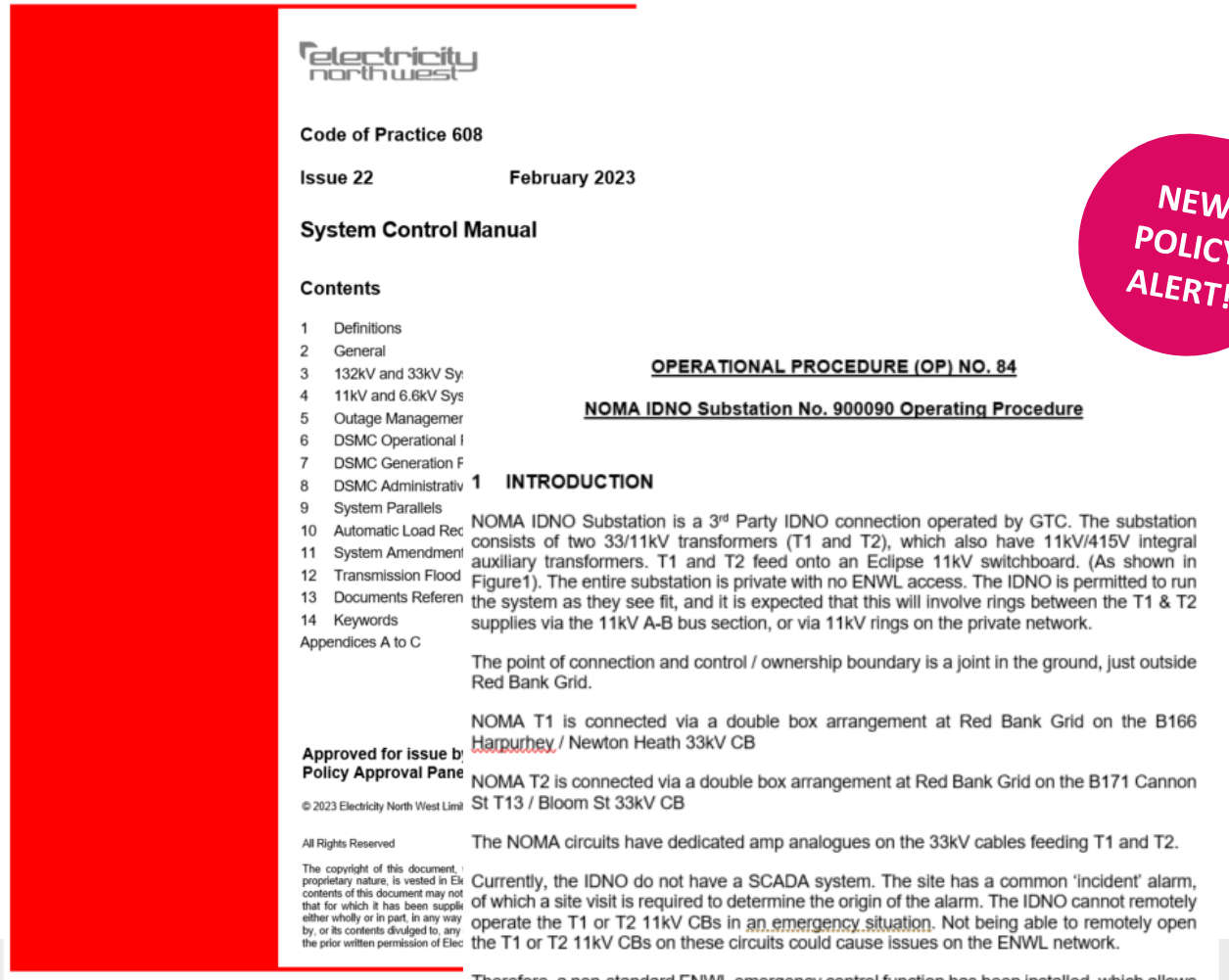
Ref	Issue	Title
CP608	1	System Control Manual – OP83
EPD279	11	Distribution System Design General Requirements
ES337	8	Specification for Protection and Control Relay Panels
CP410 Ch01	3	Mains Practice up to and Including 132kV Underground Cable Systems
CP411 Pt2N	4	11kV Cable Jointing Manual
CP412	10	33kV Solid Cable Jointing Manual
CP430 Pt1	7	Linesman's Manual – Dead Woodpole
CP606	65	Operations Manual

March policy updates

Ref	Issue	Title
CP614	34	Authorisation
ES356	11	Notices and Nameplates
ES400C5	3	Heavy Duty Cut-Outs
ES400C9	8	11kV Distribution Cables
ES400E4	11	Installation, Commissioning and Repair of Solid Type Underground Cables Operating on the LV and 6.6 / 11kV Systems, and the Restoration of Excavated Areas

Major policy updates

CP608 – Systems Control Manual – OP83



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Code of Practice 608

Issue 22 **February 2023**

System Control Manual

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Approved for issue b
Policy Approval Pane

OPERATIONAL PROCEDURE (OP) NO. 84

NOMA IDNO Substation No. 900090 Operating Procedure

1 INTRODUCTION

NOMA IDNO Substation is a 3rd Party IDNO connection operated by GTC. The substation consists of two 33/11kV transformers (T1 and T2), which also have 11kV/415V integral auxiliary transformers. T1 and T2 feed onto an Eclipse 11kV switchboard. (As shown in Figure1). The entire substation is private with no ENWL access. The IDNO is permitted to run the system as they see fit, and it is expected that this will involve rings between the T1 & T2 supplies via the 11kV A-B bus section, or via 11kV rings on the private network.

The point of connection and control / ownership boundary is a joint in the ground, just outside Red Bank Grid.

NOMA T1 is connected via a double box arrangement at Red Bank Grid on the B166 Harpurhey / Newton Heath 33kV CB

NOMA T2 is connected via a double box arrangement at Red Bank Grid on the B171 Cannon St T13 / Bloom St 33kV CB

The NOMA circuits have dedicated amp analogues on the 33kV cables feeding T1 and T2.

Currently, the IDNO do not have a SCADA system. The site has a common 'incident' alarm, of which a site visit is required to determine the origin of the alarm. The IDNO cannot remotely operate the T1 or T2 11kV CBs in an emergency situation. Not being able to remotely open the T1 or T2 11kV CBs on these circuits could cause issues on the ENWL network.

Therefore, a non-standard ENWL emergency control function has been installed, which allows the ENWL Control Engineer to remotely OPEN the T1 or T2 11kV CBs if necessary, and provides monitoring of the T1 & T2 11kV CBs. The NOMA circuits also have dedicated amp analogues on the 33kV cables feeding T1 and T2.

ENWL do not have the facility to CLOSE either T1 or T2 11kV CBs via Telecontrol.

NEW POLICY ALERT!

New OP84 added to CP608 Section 6 for NOMA IDNO Operation.

DSR004 contact details updated.

EPD279 – Distribution System Design General Requirements

Policy for 'behind the meter connections of BESS by third parties to other customer networks added in 4.21 Operation of BESS by third parties at large demand sites.

Section 4.5.1 Power factor requirements for new BESS and embedded generation connections specified. Diversity between multiple BESS sites operating in a coincident manner specified. Concept of including attrition rates and diversity between new demand and generation sites added in subsection 4.5.2. Network Studies.

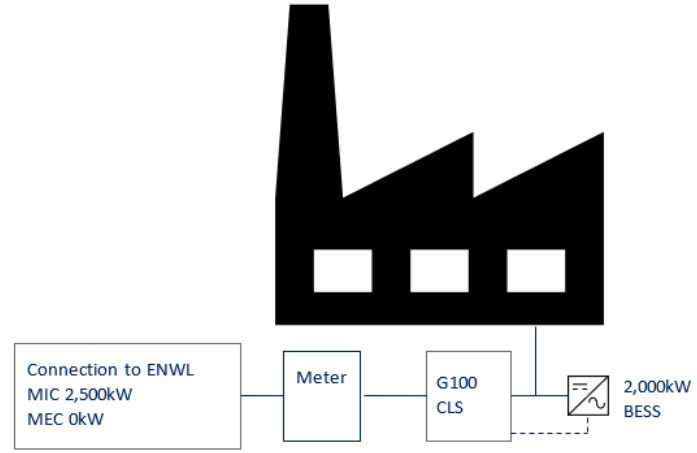
Section 4.20 – new section added covering the connection of Managed Connections to dedicated circuit breakers at a primary or 33kV board. Direct Connection of Managed Connections to primary and 33V switchboards.

Other minor editorial updates made throughout the document, not marked.

4.21 Operation of BESS by third parties at large demand sites

BESS can be used to offset power import from the distribution network by large demand customers who have cyclic demand profiles. The BESS charges up when the demand profile is low, and discharges when the demand is high. This can be commercially beneficial for both the demand customer and the BESS owner because peak demand requirements often coincide with the highest daily electricity prices. The BESS can charge during the night when unit prices are low and use the stored energy to reduce the power import requirements at times of peak electricity prices.

The BESS may connect directly onto the demand customer's installation as shown in the typical connection arrangement below:

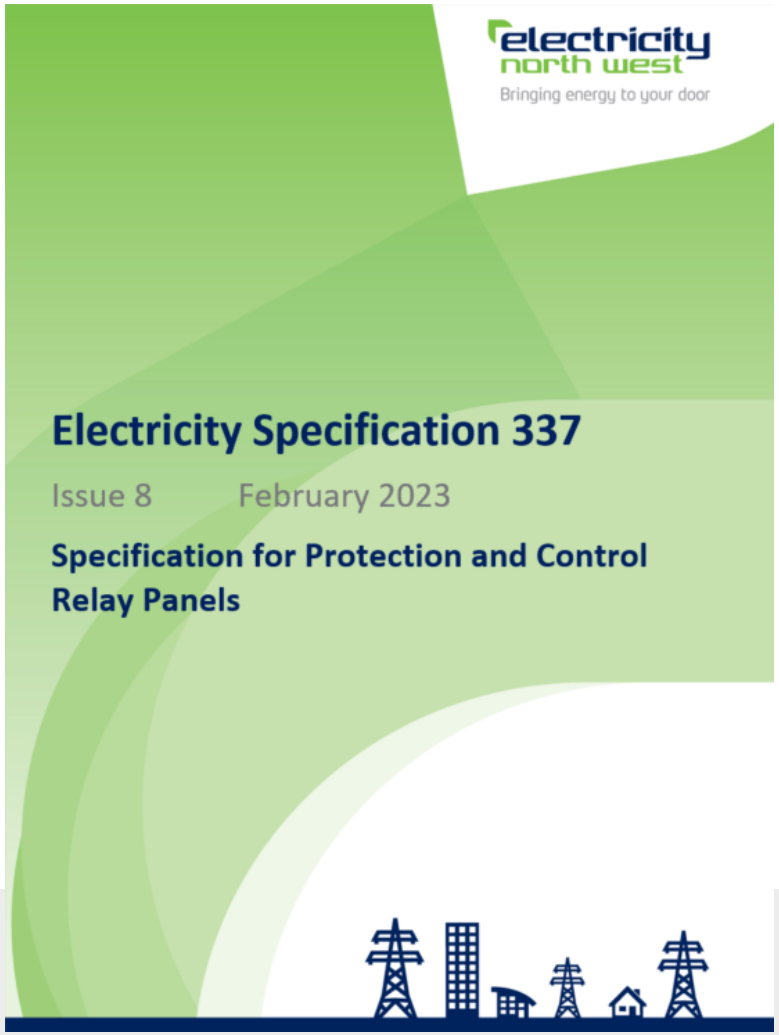


Typical connection arrangement.

The conditions for connecting the BESS onto an existing customer's installation are:

- The connection contract for the site remains with the existing demand customer
- The existing connection contract shall be modified to include the presence of the BESS. Typically, the export capacity shall be 0kVA
- The BESS shall be fully compliant with EREC G99. For the purposes of G99 compliance, the demand customer shall be classed as the customer and generator, with the BESS owner acting as their agent.
- A G100 export limitation scheme shall be used to constrain the export
- Adaptive protection may be used to manage excessive fault current

ES337 – Specification for Protection and Control Relay Panels



All protection and control panel details updated to reflect latest designs and relays in use in preparation for issue for tenders.

Specification updated to new template and new issue.

Minor policy updates

Minor policy updates

CP410 Ch01 – Mains Practice up to and Including 132kV Underground Cable Systems

- 400mm^2 triplex 11kV cable add for both stranded copper and aluminium.

CP411 Pt2N – 11kV Cable Jointing Manual

- Addition of Guroflex Cable Box instruction P4-618.
- Update to Section 4 tools index.

CP412 – 33kV Solid Cable Jointing Manual

- Updates to instructions 33j105 and 33J-106.

Minor policy updates

CP430 Pt1 – Linesman's Manual – Dead Woodpole

- IWPNG Dalloz / Troll Pole Strap removed.

CP606 – Operations Manual

- G30 has been withdrawn to match CP960 being archived.
- S39 updated with guidance on accessing link boxes.

CP614 - Authorisation

New Codes amended / added:

- Code 419 – CNS Limited Authorised Person on systems at 6.6./11kV (ground mounted switchgear only).
- CNS Limited Senior Authorised Person on systems at 6.6/11kV (ground mounted switchgear only).
- Code 519 – Replacement of single phase all insulated cut-outs only (live working) including looped cut outs.

Minor policy updates

ES400C5 – Heavy Duty Cut-Outs

- The new template for Engineering Specification Documents has been applied.
- Review of document to bring up to date to reflect current specifications and standards.

ES400C9 – 11kV Distribution Cables

- 400mm^2 stranded copper triplex 11kV cable added.

ES400E4 – Installation, Commissioning and Repair of Solid Type Underground Cables Operating on the LV and 6.6 / 11kV Systems, and the Restoration of Excavated Area

- Reference to handling of cable drums to CP410Ch4 added.
- Appendix A specification references updated.
- Appendix C added for Typical 11kV Joint Bay dimensions.

Minor policy updates

Plant Modification Instruction 709 – Long and Crawford O1206 Modification

- Due to the re-issue of CP306 the referenced documents have been updated to match current policy. Roles in the “To” box have been updated as all have changed within ENWL.
- No technical changes have been made.

ES356 – Notices and Nameplates

- New signs added into the document for Compressed Gas and Asbestos Tapes. The Gas sign has been added following an audit and fire service needing to be aware it’s on site and the asbestos tapes are in stores but no GAs were in this specification for them.

EPD241 – IPSA Network Model

- New template applied.