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Policy Newsletter
February 2024

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Policy Updates – Major Policy Updates

Ref	Issue	Title
CP430 Pt1	Contents of Manual – Iss_11 Section 2 OHL Techniques – Iss_9 OHL Technique 108 – Iss_3	Linesmen's Manual – Wood Pole and Mural Wiring
EPD283	5	Low Voltage Design Manual
ES352	11	Design of Distribution Substations and Transforming Points

Policy Updates – Minor Policy Updates

Ref	Issue	Title
CP614	41	Authorisation
ES314	8	12kV and 7.2kV 21.9kA Switchgear for Distribution Substations

Major Policy Updates

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CP430 Pt1 – Linesmen's Manual – Wood Pole and Mural Wiring

- A new section has been added to overhead line technique 108 for pole top rescue training equipment for inspection/maintenance after every 30 rescues.

- An inspection register has been added. (Appendix A).

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CARE AND USE OF PPE FOR USE ON HIGH STRUCTURES (DEAD WORK)

OHL Technique 108

Appendix A – Pole Top Training Rescue Equipment Register. Feb 24

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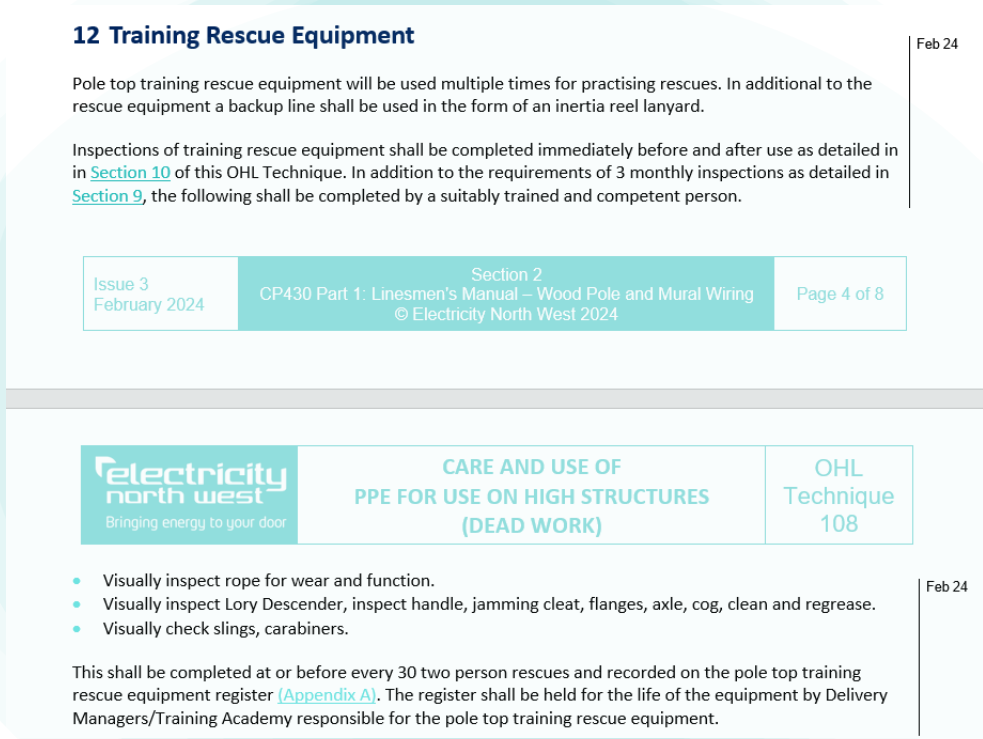
POLETOP TRAINING RESCUE EQUIPMENT

REGISTER OF TRAINING RESCUES COMPLETED

NO EQUIPMENT SHALL BE USED WITHOUT A VALID COLOUR INSPECTION LABEL

The equipment listed below shall be inspected strictly in accordance with the following routines:



12 Training Rescue Equipment Feb 24

Pole top training rescue equipment will be used multiple times for practising rescues. In additional to the rescue equipment a backup line shall be used in the form of an inertia reel lanyard.

Inspections of training rescue equipment shall be completed immediately before and after use as detailed in in Section 10 of this OHL Technique. In addition to the requirements of 3 monthly inspections as detailed in Section 9, the following shall be completed by a suitably trained and competent person.

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CARE AND USE OF PPE FOR USE ON HIGH STRUCTURES (DEAD WORK)

OHL Technique 108

- Visually inspect rope for wear and function.
- Visually inspect Lory Descender, inspect handle, jamming cleat, flanges, axle, cog, clean and regrease.
- Visually check slings, carabiners.

Feb 24

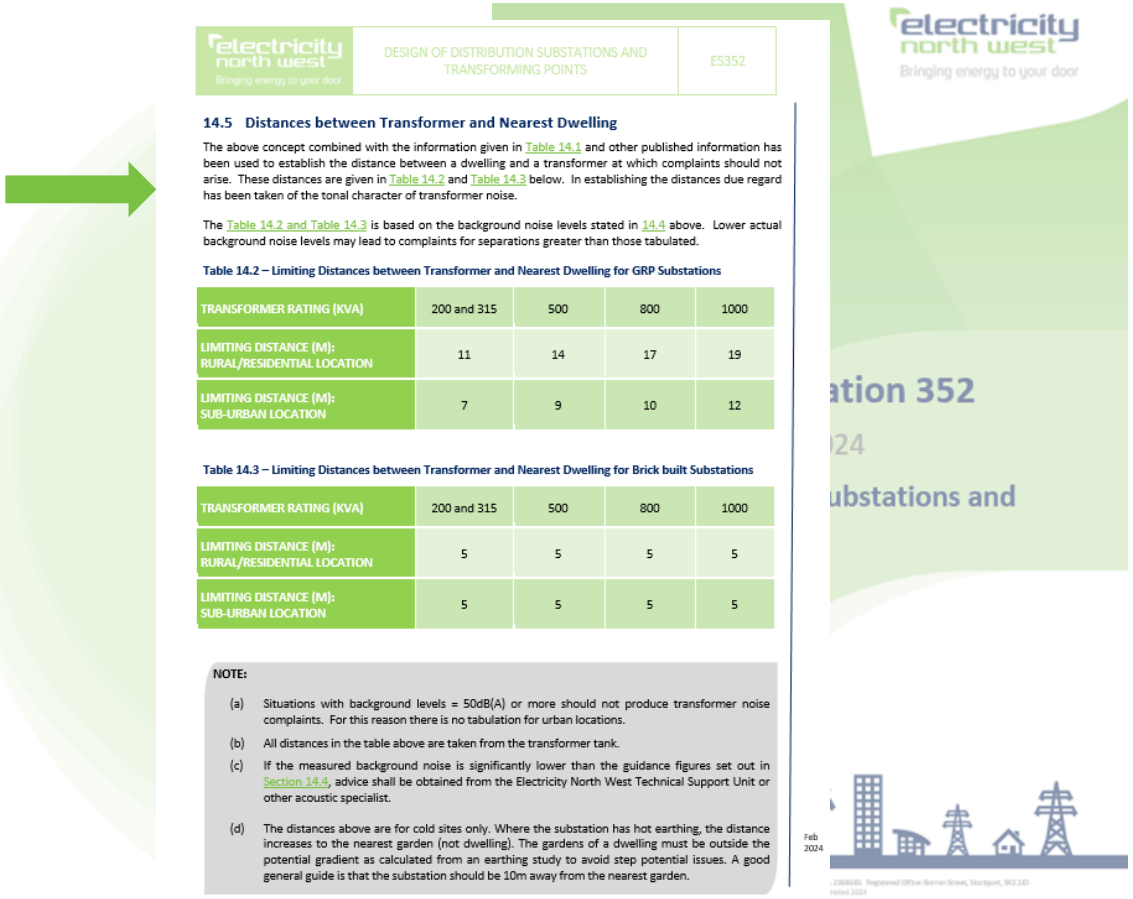
This shall be completed at or before every 30 two person rescues and recorded on the pole top training rescue equipment register (Appendix A). The register shall be held for the life of the equipment by Delivery Managers/Training Academy responsible for the pole top training rescue equipment.

EPD283 – Low Voltage Design Manual

- Guidance on cut out ratings added to assist the LCT connection triage process.
- Concept of LV network zones added. This policy deprecates the overextension of LV networks into LV networks of adjoining distribution substations in urban and suburban areas.
- Requirement to include future forecast LCT uptake in network design added.
- Guidance on when network studies are required for heat pump and electric vehicle clusters added.
- Policy for allowing EV charge points to connect to unmetered street furniture introduced.
- Earthing arrangements for public EV charge points modified to allow use of PME earthing facilities in accordance with changes in BS 7671.

ES352 – Design of Distribution Substations and Transforming Points

- Update of Section 14 in relation to distances to dwellings to align with other DNOs.
- Documents referenced in the document have been updated due to the new EPD283 being issued.
- Minor formatting changes completed which are not marked.



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DESIGN OF DISTRIBUTION SUBSTATIONS AND TRANSFORMING POINTS | ES352

14.5 Distances between Transformer and Nearest Dwelling

The above concept combined with the information given in Table 14.1 and other published information has been used to establish the distance between a dwelling and a transformer at which complaints should not arise. These distances are given in Table 14.2 and Table 14.3 below. In establishing the distances due regard has been taken of the tonal character of transformer noise.

The Table 14.2 and Table 14.3 is based on the background noise levels stated in 14.4 above. Lower actual background noise levels may lead to complaints for separations greater than those tabulated.

Table 14.2 – Limiting Distances between Transformer and Nearest Dwelling for GRP Substations

TRANSFORMER RATING (KVA)	200 and 315	500	800	1000
LIMITING DISTANCE (M): RURAL/RESIDENTIAL LOCATION	11	14	17	19
LIMITING DISTANCE (M): SUB-URBAN LOCATION	7	9	10	12

Table 14.3 – Limiting Distances between Transformer and Nearest Dwelling for Brick built Substations

TRANSFORMER RATING (KVA)	200 and 315	500	800	1000
LIMITING DISTANCE (M): RURAL/RESIDENTIAL LOCATION	5	5	5	5
LIMITING DISTANCE (M): SUB-URBAN LOCATION	5	5	5	5

NOTE:

(a) Situations with background levels = 50dB(A) or more should not produce transformer noise complaints. For this reason there is no tabulation for urban locations.

(b) All distances in the table above are taken from the transformer tank.

(c) If the measured background noise is significantly lower than the guidance figures set out in Section 14.4, advice shall be obtained from the Electricity North West Technical Support Unit or other acoustic specialist.

(d) The distances above are for cold sites only. Where the substation has hot earthing, the distance increases to the nearest garden (not dwelling). The gardens of a dwelling must be outside the potential gradient as calculated from an earthing study to avoid step potential issues. A good general guide is that the substation should be 10m away from the nearest garden.

Minor Policy Updates

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Minor Policy Updates

CP614 - Authorisation

Code added:-

Code 525: New code to allow for the use of the cable Sniffer for the location of underground cable faults.

Codes amended:-

Code 314: Title amended to include new technologies. Previously only referred to the Rezap but now we have several new other reclosing and restoration devices which are covered by this code subject to training.

ES314 -12kV and 7.2kV 21.9kA Switchgear for Distribution Substations

This document has been reviewed and new template applied.

Only a minor change has been made to add Natural Origin Gasses into Section 9 for clarity. Ready for forthcoming tender.