

Mains Maintenance Instruction

Permitted work on reinstated wood poles

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MAINS DESIGN INSTRUCTION

ASSET STANDARDS & DESIGN

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MMI 0026 PERMITTED WORK ON REINSTATED WOOD POLES

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1.0 PURPOSE

To define Endeavour Energy's requirements regarding permitted work on reinstated wood poles.

2.0 SCOPE

This instruction will apply to all work on wood poles that have been reinstated by various methods, including Eltek nails, Oz-C splints, Power Beam, Austpole rebutting, and the like.

3.0 REFERENCES

Internal

Company Policy (Network) 9.9.1 – Network Asset Maintenance

Mains Construction Instruction MCI 0005 – Overhead construction standards manual

Mains Maintenance Instruction MMI 0001 – Pole and line inspection and treatment procedures

External

Electricity Supply Act 1995 (NSW)

Work Health and Safety Act 2011 (NSW)

Electricity Supply (General) Regulation 2014 (NSW)

Work Health and Safety Regulation 2011 (NSW)

ENA National Electricity Network Safety Code (Doc 01-2008)

National Electricity (NSW) Law 1997

National Electricity Rules

4.0 DEFINITIONS AND ABBREVIATIONS

ASP

Accredited service provider

Reinstated wood pole

Poles that have been rebutted or supported at ground level by means of a steel *nail* or *sleeve*.

Permitted activities

Activities that do not change the head loading of a reinstated wood pole (refer to the table in section 5.2.1 for examples of permitted activities).

Strength factor

A factor applied to the ultimate strength of a component to account for any variability in the material of the component.

5.0 ACTIONS

The permitted work on reinstated wood poles is limited to that outlined in this instruction.

5.1 Effect of reinstatement

The poles supporting Endeavour Energy's overhead electricity distribution and transmission network will, overtime, suffer deterioration and therefore loss of strength, from various mechanisms. For wood poles, these mechanisms are generally fungal or termite attack around the ground line area. Over the years, many methods have been devised for arresting these attacks and maintaining or extending the serviceability of the poles.

One of these methods has been to reinstate the ground line area of the pole by driving a galvanised steel *splint* or *nail* down beside the pole and attaching it to the pole. This process *reinstates* the ground line area of the wood pole so that the pole is once again serviceable.

5.2 Permitted work on reinstated wood poles

5.2.1 Examples of permitted activities

The table below gives examples of permitted activities, but only when there is no significant change to the loading of the reinstated wood pole.

Reinstated wood poles – permitted activity examples:
– Climbing a pole. – Attachment, removal, rearrangement of services, small streetlight brackets, streetlight conductors. – Replacement of hardware such as insulators, ties or pole caps. – General repairs. – Operational work, such as opening/closing under-slung links or expulsion drop-out fuses. – Testing and applying/removing field earths

5.3 Work requiring pole replacement

Where work is planned that will increase the existing applied mechanical load, the reinstated pole must be replaced in conjunction with the intended project.

5.3.1 Examples of work requiring replacement of reinstated pole

The table below gives examples of non-permitted activities.

Reinstated wood poles – required replacement examples:
– Conductor augmentation. – Construction of ABS and USL equipment. – Change in construction types, such as suspension to through strain. – Addition/removal of mains conductor tee-offs. – Unbalanced re-tensioning of mains conductors. – Change of conductor angles on angle poles. – Installation of underground cables and terminations.

6.0 AUTHORITIES AND RESPONSIBILITIES

General Manager Asset Management has the authority and responsibility for:

- approving this Standard, including any variations.
- making all decisions concerning compliance in respect of this Standard.
- delegating any of these authorities and responsibilities to the Manager Asset Standards & Design.

Manager Asset Standards & Design has the authority and responsibility for:

- endorsing this Standard, including any variations
- reviewing this Standard and making recommendations to the General Manager Asset Management.
- making recommendations concerning compliance in respect of this Standard.

Mains Assets Manager has authority and responsibility for:

- clarifying all the technical aspects of this Standard with stakeholders.
- updating the relevant actions required and outlined in this Standard.

Regional Managers are responsible for ensuring that all Endeavour Energy staff are aware of and comply with the requirements of this instruction.

The **Manager Network Connections** and **Manager Major Contracts** are responsible for ensuring that all Level 1, Level 2 and Level 3 ASPs are aware of and comply with the requirements of this instruction.

All **Endeavour Energy staff and/or contractors** are responsible for:

- meeting the requirements of this instruction.
- working in accordance with local and statutory requirements.
- upholding a high level of public safety.
- working in accordance with Endeavour Energy's Electrical Safety Rules.

7.0 DOCUMENT CONTROL

Documentation Content Coordinator : Mains Assets Manager

Documentation Distribution Coordinator : Branch Process Coordinator