

**TO: Customers, Accredited Service Providers and Ausgrid Staff.**

## **Amending Network Standard NS104, Specification for Electrical Network Project Design Plans**

### **Summary:**

Network Standard NS104 is Ausgrid's Specification for Electrical Network Project Design Plans.

The objectives of this Network Standard are:

- (a) To present the required format for design plans for electrical works.
- (b) To make sure that design plans meet required standards for consistency, quality and safety and provide sufficient information to enable the intended works to be cost estimated and constructed in accordance with Ausgrid's requirements.
- (c) To set out the principal requirements for obtaining Ausgrid's certification/approval for the works proposed in design plans.
- (d) To make sure all design plans are presented in a standard, consistent and easily interpreted format which will lead to:
  - a clear understanding of the intent of all aspects of the design.
  - a clear understanding of the responsibilities and scope of works to be undertaken by each party involved with constructing the designed assets.
  - an accurate recording of Ausgrid's assets which allows those assets to be correctly identified and located as required. (The integrity of Ausgrid's GIS relies upon the accurate recording of all Ausgrid's network assets).

The document has undergone a full review (major changes) of its content and contains the following amendments:

- Relocated References and Definitions (previously Clauses 3 & 4) to later in the document to comply with current template, resulting in renumbering of all other Clauses.
- Removed requirements that all design plans must be capable of being copied or printed in black & white (Clause 3.1).
- Clarification regarding preferred scales to be used in design plans (Clause 3.5).
- Relaxation regarding requirements for locating and grouping of design tables and work schedules (Clause 3.8).
- Clarification regarding distinction between "general disclaimers" and "General Information" (Clause 4.1).
- Clarifications regarding L V schematics and street light circuits to be shown on plans (Clause 4.3).
- Relaxation & clarification regarding project location details (Clause 4.4).
- Reorganisation of Clause 4.6 for better clarity and added reference to Ausgrid Asbestos Register.
- NS220 defined as the information source for information regarding conductor operating temperatures, pole loadings and ground strengths (Clause 4.7).
- Added requirement that output of overhead line design software must be in format capable of being reviewed by Ausgrid (Clause 4.7).

- Clarifications regarding parties to be consulted concerning proposed projects (Clause 5.1).
- Clarifications regarding requirements of the Roads Act 1993 (Clause 5.3) .
- Clarifications and updates regarding the requirements of the State Environmental Planning Policy (Infrastructure) 2007 (Clause 5.5).
- Additional information regarding designs that interact with other utilities (including RF transmitters) (Clause 5.6).

No grey shading in the document for details of modifications.

The document review date has been updated to 11/12/2022.

NSs, NSAs and other technical documents are available on Balin.

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