

SIGN9.1.1.1 – Information Sheet

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Version 1.0

Overview

CER Checklist item: SIGN9.1.1.1

The grid supply main switch is not labelled "MAIN SWITCH (GRID)" or similar, which is required when the inverter is directly connected to the main switchboard.

Standard reference: AS/NZS 4777.1:2024 Clause 6.3 (b).

1. Introduction

SAA has analysed Clean Energy Regulator (CER) inspection data to identify the most common areas of non-compliance. Based on these insights, we have developed educational resources that highlight where issues typically arise and offer practical guidance to support installers in achieving compliance. This document should be read in conjunction with the relevant Standard(s).

SIGN9.1.1.1 shall comply with the requirements of AS/NZS 4777.1:2024 Clause 6.3(b).

This document outlines the key requirements for correct installation of equipment and includes examples of observed non-compliances to highlight common installation errors and help prevent their recurrence.

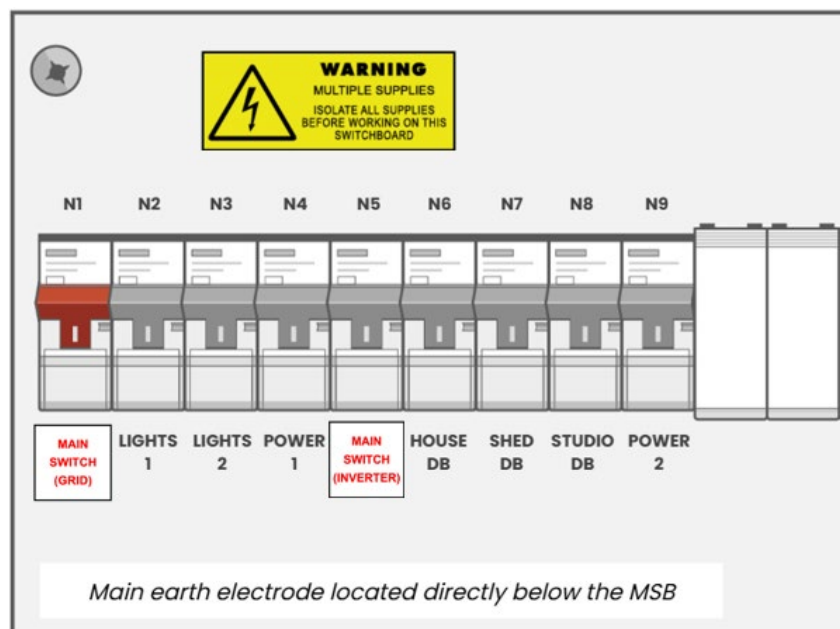


Figure 1: Compliant Main Switch Grid Supply label.

2. Key Requirements for compliant SIGN9.1.1.1

AS/NZS 4777.1:2024 Clause 6.3(b)

Signs for the switchboard to which the IES is directly connected

The following signs shall be installed on the switchboard to which the IES is directly connected:

- (a) The main switch for the IES supplementary supply shall be labelled “MAIN SWITCH (INVERTER)”. Where there is more than one IES supplementary supply other wording associated with the energy source may be added to the label e.g. “MAIN SWITCH (SOLAR INVERTER)”.

Where an IES has a IPSD providing supplementary supplies to an electrical installation as part of a multiple electrical installation, the label for each supplementary supply main switch shall be labelled “MAIN SWITCH (INVERTER)” and be followed by additional information to identify the associated electrical installation as part of a multiple electrical installation and be consistent with terminology used in the multiple electrical installation.

- (b) Where the inverter is connected to the main switchboard, the main switch for the grid supply shall be labelled “MAIN SWITCH (GRID)”.**
- (c) Where the inverter is connected to a distribution switchboard and where there is a main isolator/s for the distribution board it shall be labelled “MAIN ISOLATOR (GRID)”.
- (d) The main switch for the IES alternative supply shall be labelled “MAIN SWITCH (ALTERNATIVE)”.
- (e) The main switch for the IES Independent supply shall be labelled “MAIN SWITCH (INDEPENDENT)”.
- (f) The overcurrent protection device for the independent inverter a.c. input port shall be labelled “ISOLATOR (GRID INPUT)”.
- (g) A warning sign containing the text “WARNING”, “MULTIPLE SUPPLIES” and “ISOLATE ALL SUPPLIES BEFORE WORKING ON THIS SWITCHBOARD”, and shall be in a prominent position on the switchboard and visible to personnel operating at the switchboard.

All main switch labels shall be identified in accordance with AS/NZS 3000.

NOTE In some areas, alternate words may be used for “grid” to indicate the grid supply or the supply from the electricity distributor; acceptable alternatives that can be used for “grid” include “mains” and “normal”.

Where a main switch is for both a supplementary supply and an alternative supply, the main Switch shall be labelled as per (d) above.



Figure 2: Compliant examples of “MAIN SWITCH (GRID)” labels.

3. Common non-compliances identified with this CER checklist item

3.1 Main Switch not labelled in accordance with AS/NZS4777.1:2024 Clause 6.3(b)



Figure 3: Non-compliant switchboard with no “MAIN SWITCH (GRID)” label.

- a) **Non-compliance:** Many installations are deemed non-compliant because the main switch grid supply is incorrectly labelled or not labelled at all.
- b) **Best Practice:** When an inverter is directly connected to the main switchboard, the Main Switch for the grid supply must be clearly labelled “MAIN SWITCH (GRID)”. This ensures the grid supply can be readily identified and safely isolated during operation, maintenance, or emergency work.