

Technical Bulletin

TB 0373 – Inspection Requirements for Ground-Mounted Batteries

Date: 15/07/2025

Purpose

This technical bulletin has been issued to communicate the defects to look out for during the inspection of ground-mounted battery systems. Inspections shall be completed in conjunction with the inspection or maintenance of distribution substations.

Background

As part of Endeavour Energy's ongoing efforts to enhance the reliability, resilience and efficiency of our distribution network, we have installed a number of battery energy storage systems across the network and will continue to do so. To ensure the long-term performance of these assets the following inspection activity has been developed.

This TB identifies the inspection requirements for all ground mounted battery energy storage systems, identified in SAP with a Functional Location Object Type **BT_GRNDSTR**.

Actions

The inspection of all ground-mounted batteries shall be included as part of the distribution substation inspection program which occurs at a 3 yearly interval.

The following activities are to be performed as part of the inspections:

1. General Appearance of the Enclosure/Battery:

- **Visual Inspection:** Check for any signs of physical damage, corrosion, other wear and tear, presence of water vapour as well as signs of vermin on, or in, the enclosure.
- **Cleanliness:** Ensure the enclosure is free from dust, debris, and any foreign objects that could impede operation.
- **Seals and Gaskets:** Inspect seals and gaskets for integrity and replace if necessary to maintain a weatherproof and dustproof environment
- **Battery / Electric Compartment:** Check for pungent smells.

2. Fans:

- **Operational Check:** Verify that all fans are operational and running smoothly without unusual noise or vibration.
- **Cleanliness:** Ensure fans are clean and free from dust and debris that could affect performance. Compressed air may be used to clean fans and filters.

3. Filter/Radiator:

- **Condition:** Inspect filter/radiator for clogging from debris, dust and vermin. Compressed air may be used to clean fans and filters.
- **Visual Inspection:** Check filter/radiator for any signs of leaks, corrosion, or physical damage.

4. Liquid Cooling System (where applicable)

- **Water Colling Pipeline:** Check cooling pipeline for any signs of damage or leaks.

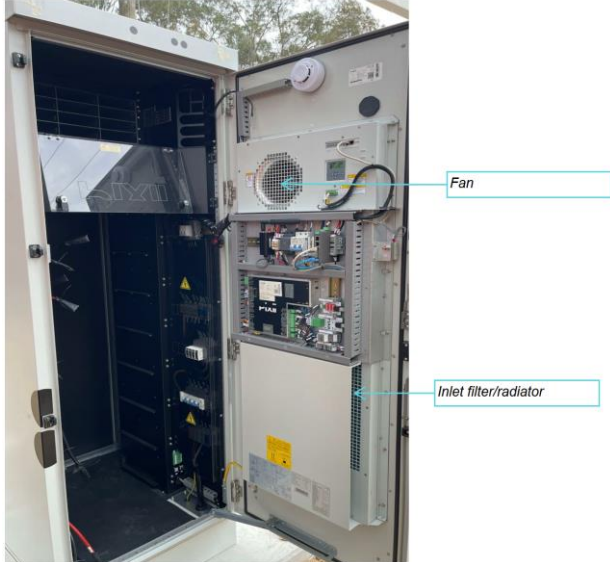
5. Connections:

- **Electrical Connections:** Inspect all electrical connections are in place and secured. Tighten and clean as required.
- **Grounding:** Verify that all grounding connections are intact.

Defects associated with these inspections have been added to the Defect Handbook – MMI0002.

Any defect that requires corrective action must be recorded in SAP.



Defect Description	Indicative Defect Photo	Task Details
Enclosure corroded Indicators are signs of corrosion, wear or tear on the enclosure		Standard Job -Replace BESS corroded part (BESSCP). SAP Priority - 7
Fan vibration Indicators are unusual noise or vibration from fan		Standard Job -Replace BESS fan (BESSFA). SAP Priority - 7
Filter Blocked Indicators are debris, dust or vermin in filter.		Standard Job -Replace BESS filter (BESSFT). SAP Priority - 7
Failed BESS Indicators: – Little or no energy capacity in battery - Inability to charge or discharge properly		Standard Job - Replace BESS battery (BESSCD). SAP Priority - 2

Implementation

The contents of this Technical Bulletin shall be implemented immediately and be maintained until such time the Technical Bulletin is withdrawn.

Contacts

For further information contact:

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