



A message from

Customer Network Solutions

Correct Placement of Fault Recorder Symbols on HV Switchgear Designs

To assist in reducing design rework, WAE RFIs, and GIS Capture corrections, Endeavour Energy would like to remind ASP3 designers of the requirements for the correct representation of Fault Recorders (FR) on HV switchgear drawings.

Key Requirement

Motorised (Automated) HV Switchgear

- Do not show Fault Recorders (FR).
- Automated/motorised switchgear configurations do not require FRs to be represented on design drawings.

Non-Motorised HV Switchgear

- Fault Recorders (FR) must be shown in the correct location.
- FR placement varies depending on the switchgear type and configuration and should be shown in accordance with Endeavour Energy's guidance document.

Common Issue Identified

A number of recent designs and WAE submissions have required correction due to:

- FRs being shown on motorised switchgear where they are not applicable.
- FRs being omitted from non-motorised switchgear.
- FRs being shown on incorrect cable ways for the switchgear configuration.

These discrepancies result in additional reviews, RFIs, drawing amendments and delays during project close-out.

Examples

ABB Safelink and Siemens 8DJH Switchgear

- Non-motorised configurations require FRs to be installed on nominated cable cubicle depending on the arrangement.
- Motorised/automated configurations do not require FRs and should not be shown on the design.

Action Required

Prior to submitting designs, please:

1. Confirm whether the switchgear is motorised (automated) or non-motorised.
2. Verify the correct FR requirements for the specific switchgear configuration.
3. Ensure FR symbols are accurately represented on all design drawings and associated documentation.

Please refer to the attached ABB and Siemens Automated Switchgear Types Guide for examples of FR locations and automated switchgear arrangements.

Thank you for your assistance in improving design quality and reducing avoidable rework across the design, construction and capture process.

Kind regards,

Customer Network Solutions