

Transition to New Relays in Chamber Substations



General Information

9 December 2024

Dear ASP1s,

Due to manufacturer product obsolescence, please be advised of the following chamber substation protection relay and associated component changes.

Overview

City Distribution Substations with E Type Board:

- Schneider P115 relay (obsolete from Tuesday 31 December 2024) will be replaced with Siemens 7SR45 relay.
- SEL 3530 RTU replaced with SEL 3350.
- Ruggedcom RS8000 network switch replaced with MOXA switch.

RMICB Substations with E Type Board (suburban):

- Schneider P115 relay (obsolete from Tuesday 31 December 2024) will be replaced with Siemens 7SR45 relay.

Key Changes

- Changes to NS114 Electrical Design and Construction Standards for Chamber Type Substations.
- Associated construction drawings listed in NS114 updated.
- Approved material List (AML) updated.

The new requirements with regards to chamber substation construction are as follows:

Transitional arrangements prior to 31st December 2024

- Ausgrid will continue to accept designs with either the old or new relay components (but not a mixture of Schneider P115s and Siemens 7SRs within the one substation) for designs submitted for certification until 31st December 2024.
- Under this scenario, the ASP/3 is required to place a notation on the design advising that “Schneider P115 relays or Siemens 7SR45 relays may be used during network construction, but not a mixture of both”.
- When the customer chamber substation goes into network construction AND the design has been submitted to Ausgrid for certification prior to and including 31st December 2024, Ausgrid will accept the ASP/1 installation of either the old (P115) or new relay (7SR45) components BUT not a mixture of both relays listed. This is to account for manufacturer availability of the Schneider P115 relay once they become obsolete as well as the differences in panel cutout and wiring associated with the two relays.

New arrangements after 31st December 2024

- All designs submitted to Ausgrid for certification by the ASP/3 after 31st December 2024 will be required to utilise the new Siemens 7SR45 relays at the network construction phase.

What This Means for You:

1. For projects planning to utilise the existing relays (P115) identified for obsolescence, orders for these relays need to be placed prior to 31 December 2024.
2. The new relays (7SR45) have different cutout and wiring specifications compared to the existing relays (P115). Protections panels are required to be manufactured to correctly match the incoming relay type and are not interchangeable with other relay types (i.e. a mixture of both relay types are NOT to be utilised).

If you have any questions or concerns about this change, please don't hesitate to contact your Ausgrid representative.

Thank you for your cooperation and continued commitment to safety and efficiency in our network operations.

Ausgrid
Connections Delivery