OHL-22-012 – PMSW (Soule) installation

The Wood Pole Overhead Line Virtual Manual (DOC-00-313) contains general instruction and guidance for SP Energy Networks staff.

OHL-22-012 Installation and Commissioning Instructions for Metal Enclosed Pole Mounted Load Break Switch Disconnector (PMSW) forms part of the manual and has been updated.

The current Ensto Auguste switch (known as a Soule within SPEN) features a number of improvements which have been developed and incorporated in the most recent framework.

The installation instructions have been updated to include many diagrams, provided by Ensto, and the instructions have been checked during trial installations by Rubber Glove staff at Dealain house in June 2022.

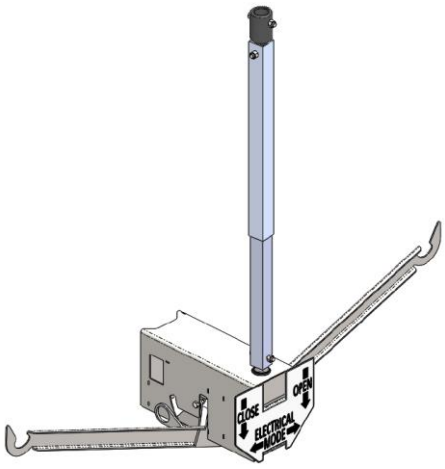


Fig 1. New hookstick mechanism

Some of the notable changes include:

- New, stainless steel, switch tank mounting bracket
- A new, stainless steel hookstick mechanism
  - (which can be retro-fitted to existing Soules)
- Surge arrestor bracket on top of main tank
- Supplied with pre-terminated, covered jumpers
- Multiplug connectors for umbilical wiring
- New, hinged, control box door.
- Updated motherboard and cards to allow 4G telecontrol

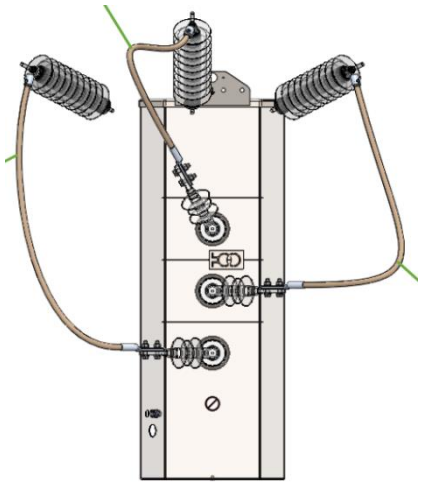


Fig 2. - Surge arrestor jumpers

The first two batches were delivered without batteries, as specified in the framework. However, as Logistics do not stock batteries, a Yuasa NPL24-12 (30985997) needs to be sourced for each of these initial PMSWs.

Ensto have agreed to revert to supplying batteries with subsequent batches of Auguste switches.

Initial installations have identified some teething problems interfacing with legacy DNP 3, Radius / Netcontrol radios. The Smart Grid team are working with Ensto to identify and resolve these issues.

Recommendations and action points

- SPEN staff involved in the installation / commissioning of Ensto Auguste (Soule) switches shall be made aware of this express and update to OHL-22-012.
- Contractors shall consider this update in line with their existing work procedures.
- Any issues with installation / commissioning should be reported to Jamie McDonald in Engineering Design and Standards.