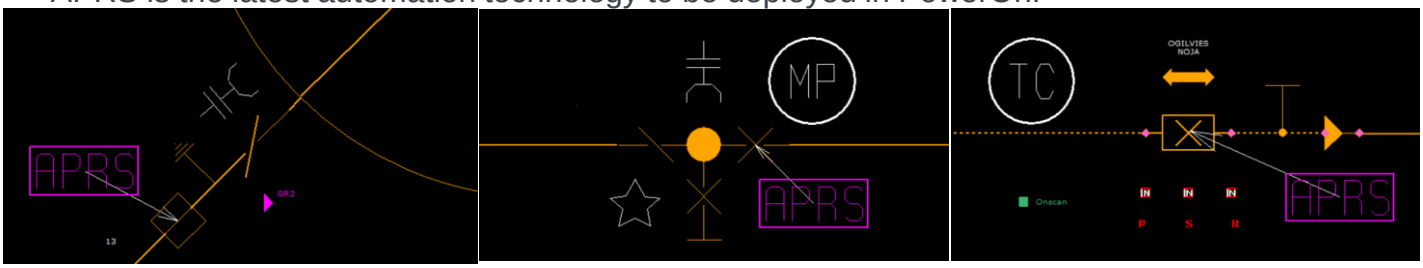
APRS Go-live (SPD)
(Automated Power Restoration System)

APRS is a new type of automation being deployed on the SPD/SPM networks.
It is intended that APRS will replace most existing LSS & SA automation schemes.
(Some SA/LSS schemes will remain where network configurations require very specific switching actions.)

In SPD, APRS has been in "Advisory Mode" (proposes switching only) as part of testing.
From 22/11/2022 any APRS on the SPD network you see will be in a live / switching mode.
Go-live date (SPD): Tuesday 22nd November
Provisional SPM dates: Advisory Mode: Q2 2023, Go-live: Q3/Q4 2023

What is APRS
APRS is the latest automation technology to be deployed in PowerOn.



Examples of APRS on PowerOn diagram.

Why is APRS being introduced
APRS schemes are more or less maintenance free and can utilise all TC/NCPs on a circuit.
Through ED2 & ED3, the number of NCPs will grow significantly across the network.

APRS will **maximise the CI/CML savings** (using all TC/NCPs on a circuit), all while **minimising maintenance/upkeep** (scheme's never need rebuilt).

How does APRS differ to LSS / SA
APRS is much smarter and more robust than LSS & SA.

- Rarely needs disabled; APRS can handle the network feeding abnormally.
- Carries out various safety checks before switching. (Check for Live Line Working, General Consent, instructed/recent switching).
- Adapts switching plan to telecontrol failures during switching.
  (LSS & SA will abort if anything doesn't work 100%.)
- APRS traces the circuit to find all TC/NCPs available on the circuit before building a switching plan. Doesn't need updated after new TC/NCPs installed on a circuit.
  (LSS & SA can only utilise a handful of pre-determined NCPs on a circuit.)

Recommendations and action points

- Distribution Operational Staff to familiarise themselves with APRS Presentation. (Link for SPEN staff.) (Contractors/External staff see email attachment).
- Continue to follow existing practices wherever LSS/SA is still in place.