SAFETY
ScottishPower*Express*

HEALTH & SAFETY MATTERS

SP Energy Networks

SI-33.8 Recloser / Circuit Breaker Protection Settings for Live Line Hands On (LLHO) Work

This Express is a reminder to all Authorised Persons who undertake planning and/or **Work** involving LLHO (**Live** Line Hands On) to adhere to the requirements of SI-33 section 8 depending on the protection applicable to the circuit where **Work** is taking place. Guidance is given under the following headings:

*(i) Auto-recloser controlling the section of overhead line has '**Live** Line Mode'.*
*(ii) Auto-recloser controlling the section of overhead line does not have '**Live** Line Mode' but an Auto-Recloser in the same circuit has '**Live** Line Mode'.*
*(iii) All auto-reclosers on the circuit on which **Work** is to take place do not have '**Live** Line Mode'.*
*(iv) '**Live** Line Mode' and / or Auto-Reclose functions installed but impractical / unable to operate.*

When creating a PowerOn switching schedule for LLHO **Work** it is essential that relevant and informative free text items are inserted to make it clear what intended action is to be carried out. For example, when setting a PMAR (Pole Mounted Auto Recloser) to "**Live** Line Mode".

On PowerOn, LLW (**Live** Line Working) symbols shall be placed at the following locations:
- Source of infeed (typically the Primary feeder CB)
- Tripping Point (for example a PMAR)
- All open points
- Any sites where protection has been depleted (with relevant free text e.g. protection disabled)
- Point of **Work**

Recommendations and action points

- Authorised Persons who undertake planning and/or **Work** involving LLHO should familiarise themselves with the requirements of SI-33 section 8

- Authorised Persons submitting switching schedules for LLHO **Work** should insert free text information on specific switching items, where relevant, such as "Set to **Live** Line Mode"

- A previously published Technical Express EXP-11-328 should be further consulted for information on submitting switching schedules with APRS (Automated Power Restoration System) and considerations with LLHO **Work**