

PPL Electric Utilities

Approved Customer Point of Contact Relays

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Customer point of contact (POC) relaying is required to protect the PPL power system (and other customers) from a customer's faulted supply system. This document defines the approved relays for customer POC and describes the requirements for application of these relays by the customer.

Requirements for POC Relay Application

1. The customer POC relays must be independent and used only for POC isolation of the customer's facilities from the PPL power system. The POC relay may not be used for any protection of customer equipment.
2. Simplicity and ease of maintenance/testing is a primary goal. The POC relay installation must include facilities (sliding links or FT test switches) to isolate the relay for testing. AC currents, AC potentials, and all input and output contacts must be fully isolated by these facilities. AC current isolation must include current circuit shorting provisions.
3. The customer must demonstrate a battery/UPS maintenance program if an externally powered relay is selected from the list below.
4. Microprocessor relays should be avoided unless the customer can demonstrate the facilities and a plan to address relay failure alarms.
5. The DPU 2000R listed below should only be used when the situation demands a more sophisticated solution than non-directional over-current protection.

Approved Relays

- Westinghouse CO-7
 - Westinghouse CO-9
 - General Electric IAC 51
 - General Electric IAC 53
 - General Electric DIAC
 - ABB MICRO-51
 - ► ABB 51Y
 - ► ABB 51 I
 - ► ABB 51YM
 - Basler BE1 32R (for reverse power applications)
 - Basler BE1-50/51B
 - Basler BE1-50/51M
 - ► Schweitzer SEL-551
 - ► ABB MSOC (Microshield O/C)
 - ► ABB DPU 2000R
- externally powered

Note: this list will change as circumstances dictate: availability, manufacturer support, software/firmware issues or new technology may dictate removals and replacements to this list.