

Electrical Distribution Safety

General:

There have been questions and requests from some LDCs and Auditors regarding if the task of changing a breaker relay setting at a substation falls under the requirements of Ont. Reg. 22/04.

Direction:

Control components of protection equipment such as a relay for a breaker or recloser is the intelligent component of a device which senses fault conditions and instructs the device to operate in order to minimize the possibility of shock and fire hazards. The setting of control components of a distribution system requires engineering to determine the appropriate setting based on parameters such as voltage, current and time; therefore would fall under Ont. Reg. 22/04.

The action of setting the control component will require a Certificate of Approval (Section 7) and Record of Inspection and Certificate (Section 8) to be completed.

Q and A's

Question 1:

Where does the distribution system begin with respect to O. Reg. 22/04?

Answer 1:

Extends from the fence line of the Transformer Station when the distribution system is operating at 50,000 volts or less as indicated in Section 3.1.4 of the *Technical Guidelines for Section 6. Approval of electrical equipment Section 7. Approval of plans, drawings and specifications for installation work Section 8. Inspection and approval of construction.*

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Question 2:

Does performing maintenance on a breaker require relay settings to be reviewed?

Answer 2:

No

Question 3:

How often does the breaker setting need to be reviewed?

Answer 3:

Reviewing of the breaker setting would depend on the LDC's policy.

ESA Recommends:

- The field staff involved with the setting of control components for protection equipment understand the requirements to complete a Certificate and Record of Inspection.
- Reviewing the control component settings when significant changes are made to the system.

ADDITIONAL INFORMATION:

Information requests and follow-up may be directed to ESA at Utility.Regulations@ElectricalSafety.on.ca.
For questions on this bulletin please be prepared to quote Bulletin "DIB-13/12".