

**Proposal Number: 2018-OA-013**

**Rule 28-500(4) and Appendix B Note - New**

**Description of Change: Add new requirement for use of manual motor controllers not  
suitable as disconnecting means**

**Submitted by: Office of the Chief Coroner & Ontario Forensic Pathology Service**

**Background:**

Office of the Chief Coroner and Ontario Forensic Pathology Service has issued the proposal for changes, see the attachment.

## Background:

A worker was electrocuted while performing maintenance on a pump motor. A Manual Motor Controller (MMC) was involved in the fatality. MMC's marked "suitable as a motor disconnect" serve two functions: one being a motor starter/controller and the second as a motor disconnect. If not marked "suitable as a motor disconnect" (as shown below) by the manufacturer it is only to be used as a motor starter/controller.



To help prevent using such MMC's as a disconnecting means, this proposal will require a field marking on MMC's to only be used as a controller/starter when not rated to be used as a disconnecting means. It also refers the user to the appropriate equipment that should be used as a disconnecting means.

## Rationale:

This new requirement will remove ambiguity on which MMC's may be used as a disconnecting means.

## Proposed Change:

### 28-500 Control required (see Appendix B)

1. Except as permitted by Subrule (3), each motor shall be provided with a motor starter or controller for starting and stopping it that has a rating in horsepower not less than the rating of the motor it serves.
2. A motor controller need not open the circuit in all ungrounded conductors to a motor unless it also serves as a disconnecting means.
3. The motor starter or controller specified in Subrule (1) shall not be required for motors in the following applications:
  - a) a single-phase portable motor rated at 1/3 hp or less connected by means of a receptacle and attachment plug rated not in excess of 15 A, 125 V;
  - b) a motor controlled by a manually operated general-use switch complying with Rule 14-510 having an ampere rating not less than 125% of the full load current rating of the motor;
  - c) a 2-wire portable ac or dc motor having a rating not in excess of 1/3 hp, 125 V controlled by a horsepower rated single-pole motor switch;
  - d) two or more motors that are required to operate together shall be permitted to be operated from a single controller specifically approved for such purpose; or
  - e) for a motor where the controller is specifically approved for use with that motor, it need not be rated in horsepower.

4. A manual motor controller that is not marked "Suitable for Motor Disconnect" shall be field marked:
  - a) Warning: Do not use to isolate motor; and
  - b) to indicate the disconnecting means and its location

**Appendix B:**

**28-500**

4. Example of acceptable marking: ISOLATE MOTOR DISCONNECTING MEANS AT PANEL XX,  
CIRCUIT XX

- **Office of the Chief Coroner & Ontario Forensic Pathology Service**