

DEPARTMENT OF INDUSTRIAL RELATIONS
Division of Occupational Safety & Health
ELEVATOR UNIT - HEADQUARTERS
6980 Santa Teresa Boulevard, Suite 130
San Jose, CA 95119
Tel: (408) 362-2120 Fax: (408) 362-2131

**MEMORANDUM****Date:** December 17, 2014**TO:** Conveyance Installers, Manufacturers, and other Interested Parties**SUBJECT:** Component replacement for Group II solid state conveyance controllers

Solid state conveyance controllers that are subject to the Group II requirements of the Elevator Safety Orders (ESO) are required to be reviewed and accepted by the Division.

CCR, Title 8, ESO, Group I, section 3001(a)(8): The person or firm installing a static control shall provide the Division with information showing that the control complies with the requirements of Group II, sections 3040(f)(4) and 3040(f)(7). This information shall be in the form of either:

- (A) Electrical schematic diagrams or block diagrams of the control and safety circuits; or
- (B) A written checkout procedure and demonstration of safety and speed control circuits required by sections 3040(f)(4) and 3040(f)(7) at the time of the inspection.

The replacement of obsolete circuitry or components in solid state controllers that are subject to the Group II requirements of the Elevator Safety Orders is governed by Circular Letter E-92-8. [see attachment 1]

The Division considers the replacement of obsolete and unavailable controller components in accordance with Circular Letter E-92-8 a modification of the controller and requires the following information to be submitted for review and acceptance prior to the modification:

1. Manufacturer and model/type of the controller.
2. Original and as modified schematic wiring diagrams of the controller circuits, and devices.
3. Description, electrical rating, and markings of controller components installed, replaced or removed.
4. Electrical ratings of the driving machine motor and brake.
5. State-issued conveyance number, complete conveyance address, business name and contact information of the certified qualified conveyance company (CQCC) performing the modification work.

The Elevator Unit District Office having jurisdiction shall be notified in writing of the intent to modify the conveyance controller, and an inspection by the Division shall be completed prior to the conveyance being returned to normal service.

The addition of circuitry or components to conveyance controllers for the purposes of providing additional features or capabilities is considered an alteration and subject to the alteration requirements of the Elevator Safety Orders.

A handwritten signature in cursive script that reads "Debra Tudor".

Debra Tudor
Principal Engineer
DOSH - Elevator Unit HQS

Department of Industrial Relations
DIVISION OF OCCUPATIONAL SAFETY AND HEALTH
ELEVATOR, TRAMWAY, AND RIDE UNIT
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ADDRESS REPLY TO:
Post Office Box 420603
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October 23, 1992

CIRCULAR LETTER E-92-8

TO: Elevator Companies and Others Concerned

SUBJECT: Replacement of Solid State Elevator Controls

When solid state controls are used to govern the starting, stopping, direction of motion, acceleration, speed and retardation of the elevator moving member, there must be compliance with the Elevator Safety Orders. Section 3001(a)(8) identifies the safety order sections with which solid state controls must comply.

Since the Division started issuing acceptance letters, there have been many changes in the technology associated with solid state controls. Many more companies have entered the market. The Division's acceptance is made to the manufacturer for an identified control and any required field testing.

Any change or replacement to solid state controls must be reviewed and found acceptable to the Division. Solid state control changes or replacements must be the same as the original design and so certified in writing to the Division. Failure to do so may result in the Division voiding the manufacturer's acceptance and the elevator operating permit. Should you have any questions concerning solid state controls, please contact Pablo Puno at this office.

Sincerely,

A handwritten signature in black ink, appearing to read "W. E. McTiernan", followed by a horizontal line.

W. E. McTiernan
Principal Safety Engineer
DOSH - Elevator, Tramway, and Ride Unit

WM:ct

