

DEPARTMENT OF INDUSTRIAL RELATIONS

Division of Occupational Safety & Health

ELEVATOR UNIT - HEADQUARTERS

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**MEMORANDUM****Date:** January 24, 2013**TO:** Conveyance Installers, Manufacturer's, and other Interested Parties**SUBJECT:** Powering of Car Door Reopening Devices

The use of the elevator car lighting circuit by other devices (i.e. car door reopening devices, security devices, display panels, etc.) is not in conformance with the Elevator Safety Orders.

The California Electrical Code section 620.22 requires a separate branch circuit for the elevator car lighting, convenience outlets, auxiliary lighting power source, and ventilation. Additionally, C.E.C. section 620.25 requires devices not specifically listed in C.E.C. 620.22 to be supplied by a separate circuit.

620.22 Branch Circuits for Car Lighting, Receptacle(s), Ventilation, Heating, and Air-Conditioning.

A. Car Light Source. A separate branch circuit shall supply the car lights, receptacle(s), auxiliary lighting power source, and ventilation on each elevator car. The overcurrent device protecting the branch circuit shall be located in the elevator machine room or control room/machinery space or control space. Required lighting shall not be connected to the load side of a ground-fault circuit interrupter.

620.25 Branch Circuits for Other Utilization Equipment.

A. Additional Branch Circuits. Additional branch circuit(s) shall supply utilization equipment not identified in 620.22, 620.23, and 620.24. Other utilization equipment shall be restricted to that equipment identified in 620.1.

Utilization Equipment: Equipment that utilizes electric energy for electronic, electromechanical, chemical, heating, lighting, or similar purposes.

If a car door reopening device requires power not provided through the elevator controller, a separate branch circuit shall be provided in accordance with C.E.C. 620.25.

The installation of new car door reopening devices on existing elevators is considered an alteration and shall comply with the alteration requirements of the Elevator Safety Orders.

A handwritten signature in black ink that reads 'Debra Tudor'.

Debra Tudor
Principal Engineer
DOSH - Elevator Unit HQS