

Adjacent elevator machine rooms share a common power distribution box



AI Overview

Elevator machine rooms must have dedicated power distribution, and sharing a common distribution box between adjacent machine rooms is generally not permitted under NEC 620.37. NEC and Code Requirements According to NEC Article 620, all electrical wiring and disconnects used directly for elevator operation must be located within the machine room, control room, or hoistway and cannot be combined with unrelated electrical equipment in a shared panel. Each elevator typically requires a dedicated fused disconnect switch located adjacent to and visible from the elevator machinery. This ensures safe isolation of the elevator system for maintenance and emergency purposes.

Practical Considerations

Dedicated circuits: Each elevator's motor, controller, and lighting circuits must have separate branch circuits to comply with NEC and manufacturer specifications.

Machine room layout: Machine rooms must provide sufficient clearance around equipment for maintenance, and only elevator-related equipment is allowed inside.

Temperature and ventilation: Proper cooling and ventilation are required to maintain equipment between 55°F and 110°F, with emergency power provisions if necessary.

Implications of Sharing a Distribution Box

Sharing a common power distribution box between adjacent machine rooms could violate NEC 620.37, as it may mix elevator circuits with other equipment or other elevators, creating safety hazards and complicating maintenance. Each elevator should have its own disconnect and dedicated wiring to ensure compliance, worker safety, and operational reliability.

Summary

While adjacent machine rooms may be physically close, each elevator must have its own dedicated power distribution and disconnects. Combining them into a single shared box is not code-compliant and is discouraged due to safety, maintenance, and regulatory concerns...

Article Content

3005.4 Machine rooms, control rooms, machinery spaces, and control

The activation of automatic sprinklers outside the hoistway, machine room, machinery space, control room or control space shall not disconnect the main line power supply.

[Elevator Machine Room Disconnects | Information by Electrical ...](#)

The client wants to put an Equipment Branch panel in the elevator machine room that will have nothing to do with the elevators. Rather it is to serve two Air Handling Units.

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[Industry Bulletin – Disconnecting Means for Elevato](#)

[Industry Bulletin – Disconnecting Means for Elevators](#) "The Bureau confirms that all disconnecting means directly related to elevators must be provided in compliance with NFPA 70 (National Electric

[Hoistway Wiring](#)

Minimizing the need for untrained personnel (non-elevator personnel) to enter elevator equipment spaces reduces the exposure to injury from moving and rotating machinery. ISSUE:

[Elevator Machine Room Layout Wrong? Fix Clearance](#)

Plan an elevator machine room layout with correct panel clearance, cooling load, cable trays, and 300-500 lux lighting for safe maintenance.

[eCFR :: 29 CFR Part 1910 Subpart S -](#)

If sprinklers are installed in hoistways, machine rooms, or machinery spaces, the disconnecting means may automatically open the power supply to the affected elevators prior to the application of water.

[EQUIPMENT ROOMS, ELEVATOR](#)

[EQUIPMENT ROOMS, ELEVATOR Security / Identification](#): All mechanical equipment rooms that house elevator machinery shall be lockable and securable such that access is limited to elevator mechanics

[Elevator Machine Room Too Small? Layout Rules That](#)

Plan an elevator machine room with correct clearances, cooling, lighting, and rigging access to avoid maintenance delays and code issues.

NEC Article 620: Elevators, Part 2

Overcurrent devices and disconnects must be located in machine or control spaces, be lockable and provide a single means to disconnect

Code requirements for elevator machine room wires? This is a

27 votes, 49 comments. 14K subscribers in the Elevators community. Everything related to elevators and escalators.

NEC Article 620: Elevators, Part I

We shall now take a look at the principle requirements of Article 620, with particular emphasis on wiring requirements for elevator shafts, machine rooms and cars.

1. INTRODUCTION

The designer or builder of the distribution substation should coordinate with Senior Planning and Design Manager of CLP Power for the provisions of the earthing installation.

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NEC Article 620: Elevators, Part 2

AI Overview NEC Article 620 prescribes wiring, protection, grounding and installation rules for elevators and related equipment. Each car, machine

CHAPTER 30 ELEVATORS AND CONVEYING SYSTEMS

Wires or cables that are located outside of the elevator hoistway, machine room, control room and control space and that provide normal or standby power, control signals, communication with the car,

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Elevator Machine Room Layout Wrong? Fix Clearance Plan an elevator machine room layout with correct panel clearance, cooling load, cable trays, and 300-500 lux lighting for safe maintenance.

CHAPTER 30 ELEVATORS AND CONVEYING SYSTEMS

Elevator machine rooms, machinery spaces that contain the driving machine, and control rooms or spaces that contain the operation or motion controller for

6-1 Elevator Machine Room, Control Room, and Machinery Space

For each elevator group, provide electrical power service from the main building electrical distribution panel to the elevator machine room. Designer must consider type of elevator drive specified and

Chapter 30 Elevators and Conveying Systems

This chapter governs the design, construction, installation, alteration and repair of elevators and conveying systems and their components.

et al aceay in Elevator or

After reading this article, you should have learned about: ♦ The role of the NEC in electrical installations for elevators ♦ The relationship between the NEC and the ASME A17.1-2007/ CSA B44-07: Safety

Electrical room

An electrical room is a technical room or space in a building dedicated to electrical equipment. Its size is usually proportional to the size of the building; large

NEC Article 620: Elevators

Continuing Education: Codes & Standards NEC Article 620: Elevators, Part 1 by David Herres photos by Judith Howcroft Learning Objectives After reading

CHAPTER 30 ELEVATORS AND CONVEYING SYSTEMS

Where two or more elevators are controlled by a common operating system, all elevators shall automatically transfer to standby power within 60 seconds after failure of normal power where the

2021 International Building Code (IBC)

Puzzle rooms (escape rooms) are now defined and regulated as special amusement areas, requiring compliance with Section 411 and special means of egress requirements.

Compliance with the 2017 NEC for Elevator Controllers

This article will also discuss other Code requirements that include selective coordination for elevators that are supplied by emergency, legally required standby or critical operation power systems or

Basement/Adjacent Machine Room

A machine room holds all of the equipment needed to power a traction elevator. This room will hold the elevator's drives and controllers along with other critical gear.

NEC Article 0: Elevator art 1

If we fast forward more than centuries, we see some important new developments in elevator technology lisha tis'' safety elevator, introduced in, prevented the fall of the car if the cable broke A few

Equipment in Hoistways, Machine Rooms and Control Rooms (ASME

In accordance with ASME A17.1/CSA B44 Section 2.8 non-elevator electric wiring, pipes and ducts are prohibited in elevator machine rooms, control rooms and hoistways except as otherwise provided in

6-1 Elevator Machine Room, Control Room, and

DoD UFC Elevators > Chapter 6 Electrical > 6-1 Elevator Machine Room, Control Room, and Machinery Space Go To Full Code Chapter

Contact Us

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