

NEC Article 620: Elevators, Part I

by David Herres

photos by Judith Howcroft

Learning Objectives

After reading this article, you should have learned about:

- The meanings of definitions for control room and control space versus machine room
- The purpose and specifications for working spaces
- Insulation types and minimum sizes of conductors
- Requirements for feeder and branch-circuit conductors
- Feeder demand factors for elevators

We generally think of the 19th century as the great age of building codes. A surge of immigration to the U.S., the end of slavery and, on both sides of the Atlantic Ocean, a burgeoning industrial revolution ignited an acceleration in new building. Building codes were deemed necessary to protect the public against shoddy builders and outmoded construction techniques. But, building codes had been in existence for many centuries.

Hamurabi, sixth king of Babylon and creator of the Babylonian Empire, decreed:

"If a builder builds a house for someone and does not construct it properly, and the house which he built falls in and kills its owner, then that builder shall be put to death. . . If it kills the son of the owner, the son of that builder shall be put to death."

If we fast forward more than 36 centuries, we see some important new developments in elevator tech-

nology. Elisha Otis' safety elevator, introduced in 1853, prevented the fall of the car if the cable broke. A few years later, in 1880, Werner von Siemens built the first electric elevator, setting the stage for a new industry that would change the world by making the practical use of tall buildings possible.

For all of this to come together in the real world, there had to be some assurance that these new technologies could be used safely on a wide scale. Later in the 19th century, Thomas Edison and his associates built an electrical distribution system in Lower Manhattan. Even though Edison grasped the basic ideas of fusing and overcurrent protection, many hazards remained. Finally, in 1897, the first National Electrical Code (NEC) appeared. The main impetus for the creation of the NEC in the closing years of the 19th century was the collective anguish experienced by insurance underwriters who were losing vast amounts of money due to liability and physical damage claims resulting from Edison's electrification of, first, Lower Manhattan and then the world. Through numerous editions, the NEC has, to a great extent, mitigated the hazards accompanying widespread use of electricity, particularly with respect to elevator technology.

NEC Article 620 covers elevators, dumbwaiters, escalators, moving walks, platform lifts and stairway chairlifts. Each of these performs a different function, and the wiring mandates vary accordingly. The most complex of these is the elevator.

Continued



**Value: 1 contact hour
(0.1 CEU)**

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Roman Wölfel

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