



State of Colorado Conveyance Policy (Effective 01/01/2024)

Testing and Inspection policy for elevators provided with Emergency Power Operation

Discussion

Pursuant to the currently adopted edition of the ASME A17.1 Safety Code for Elevators and Escalators: where an elevator is provided with an emergency or standby power system to operate the elevator when the normal power supply fails, the elevator shall comply with the requirements of Section 2.27.2 of ASME A17.1. These elevators are also subject to the requirements of ASME A17.1 Section 8.6.4.19 (Periodic Testing) and Section 8.11.2 (Inspection). To assist conveyance stakeholders in complying with these requirements, this policy shall serve as the minimum standard for complying with the requirements in the State of Colorado.

Policy

When completing the required Annual Category 1 Safety Test to satisfy the requirement of ASME A17.1 Section 8.6.4.19.7, a Licensed Conveyance Mechanic shall verify emergency power operation is functional by utilizing one of the following options:

- Removing the normal power supply of the building and verifying elevator emergency power functionality; or
- Simulating the loss of normal building power within the elevator controller and verifying elevator emergency power functionality.

The mechanic shall indicate the results of this verification process by checking the appropriate box on the test form provided by the Administrator, or the Authority having Jurisdiction (AHJ), as applicable.

A Licensed Conveyance Inspector shall verify the appropriate box has been checked when reviewing the Annual Safety Test report during the required annual inspection. Where the result of the emergency power verification is noted as failed, the Inspector shall note that as a Temporary Certificate of Operation (TCO) result on the inspection report to be submitted.

When Acceptance or Witnessed Test Inspections are completed as required by State Conveyance Regulation 7 CCR 1101-8, the Conveyance Owner shall be responsible for ensuring that all appropriate personnel are present to place the full operation of all building electrical systems on the Emergency or Standby Power System to test that the elevator functions as required in the currently adopted edition of ASME A17.1. In cases where the elevator fails to function as required by ASME A17.1, a TCO will not be issued, and the test result shall be "failed," requiring the elevator to be taken out of service until repairs are made and a "passing" test result is achieved. In these cases, the Administrator or Approved AHJ may approve a TCO being issued to allow the continued operation of an elevator that has not achieved a passing test result when elevator operation is deemed necessary by the Administrator or AHJ.

