



STATE OF WASHINGTON
DEPARTMENT OF LABOR AND INDUSTRIES
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Technical Bulletin

March 9, 2015

Emergency Power Acceptance Testing

Purpose:

This is to verify that the generator is of sufficient capacity to safely operate all elevators and that the system is capable of handling any regenerative loads.

NOTE: Battery power is not considered emergency power.

A17.1 - 8.10.2.2.1(q) Emergency or Standby Power Operation (Item 1.17).

Operation of elevators equipped with emergency or standby power shall be inspected and tested for conformance with the applicable requirements (2.16.8 and 2.27.2). Passenger elevators and freight elevators permitted to carry passengers shall be tested with 125% of rated load. Other freight elevators shall be tested with rated load. In addition, freight elevators with Class C2 loading shall be tested to ensure that the overload can be maintained during loading and unloading.

This is to verify operational compliance

A17.1 - 8.10.2.2.4(k) Standby or Emergency Power Selection Switch (Item 4.12) (2.27.2 and 8.1). [See also 8.10.2.2.1(q)]

This is to verify compliance of the selector switch

NEC 700.3(A) The authority having jurisdiction shall witness a test of the complete system upon installation.

SCENARIO 1 – Selector switch not provided (see A17.1 – 2.27.2.1 – 2.27.2.3)

IBC 3003.1.2 Where only one elevator is installed, it shall automatically transfer within 60 seconds.

IBC 3003.1.3 Where the standby power source is of sufficient capacity to operate two or more elevators, all elevators shall automatically transfer within 60 seconds.

1. All elevator(s) are placed at an upper landing with 125% rated load
2. Test to verify that cars will lower to designated level
3. Once lowering is completed, all elevators are to be tested with rated load.

SCENARIO 2 – Selector switch provided (see also, 2.27.2.4.1 – 2.27.2.4.6)

IBC 3003.1.3 Where the standby power source is not of sufficient capacity to operate all elevators at the same time, all elevators shall transfer to standby power in sequence, return to the designated level and disconnect from the standby power source. After all elevators have returned to the designated level, at least one elevator shall remain operable on standby power.

1. When a selector switch is provided, the sequential lowering test is to be performed with 125% rated load, this is per the acceptance test requirement 8.10.2.2.1(q)
2. This may be performed by either allowing the system to automatically select or if there is not enough test weight, by selecting each elevator with 125% rated load.
3. Once sequential lowering is completed, all elevators capable of running shall be tested with rated load.