



Notice of Rulemaking Hearing

December 20, 2011

Adoption of the 2011 Oregon Elevator Specialty Code

Opportunity for public input:

Those who would like to provide testimony may attend a public hearing on December 20, 2011 at 9:30 a.m. The hearing will be located at the Building Codes Division, Conference Room A. Written comments may also be submitted to the contact below. The last day to submit written comments is 5:00 p.m. December 23, 2011.

Live broadcast via the internet:

To view the public hearing live, click on "[View live meeting](#)"

Purpose of the rule:

These proposed rules adopt nationally recognized safety standards with Oregon amendments for the safe installation, alteration, repair, and maintenance of elevators in Oregon. These rules also adopt an Oregon specialty code for lifts. Adoption of these standards is necessary to protect the public and property in Oregon by ensuring safe installation, alteration, repair, and maintenance of elevators.

Citation:

Amend: OAR 918-400

To view the proposed amendments click the following links:

[2011 Elevator Code Matrix](#) and [Table 2-L amendments to 2010 ASME A17.1](#)

This proposed rule and code amendments would become effective January 1, 2012.

History:

The division, in consultation with the board, established July 13, 2011 through August 26, 2011 as the timetable for accepting proposed code amendments to the Oregon Elevator Specialty Code. No proposed amendments were received from the public. A code review committee was formed and met twice, once in July and once in August. The committee reviewed the various safety standards and the Oregon specialty code for lifts and made a recommendation to the board. The Oregon Elevator Specialty Code includes the following codes with Oregon amendments:

- 2010 ASME A17.1 Safety Code for Elevators and Escalators
- 2010 ASME A17.2 Guide for Inspection of Elevators, Escalators and Moving Walks
- 2008 ASME A18.1 Safety Standard for Platform Lifts and Stairway Chairlifts
- 2009 ASME A90.1 Safety Standard for Belt Manlifts
- 2005 Oregon Specialty Lift Code.

The Electrical and Elevator Board, at its November 17, 2011 meeting, considered and approved amendments and recommended that the division forward these rules to public hearing with the finding that the added cost, if any, is necessary to the health and safety of the occupants or the public, or necessary to conserve scarce resources.

Contact:

If you have questions or need further information, contact Hearing Officer Warren Hartung at 503-378-3866, or Warren.J.Hartung@state.or.us.



Secretary of State
NOTICE OF PROPOSED RULEMAKING HEARING*

A Statement of Need and Fiscal Impact accompanies this form.

Department of Consumer and Business Services, Building Codes Division	918
Agency and Division	Administrative Rules Chapter Number
Stephanie Snyder	(503) 373-7438
Rules Coordinator	Telephone
PO Box 14470, Salem, OR 97309	
Address	

RULE CAPTION

Adopts the 2011 Oregon Elevator Specialty Code

Not more than 15 words that reasonably identify the subject matter of the agency's intended action.

December 20, 2011	9:30 a.m.	1535 Edgewater Street NW, Salem, OR 97304	Warren Hartung
Hearing Date	Time	Location	Hearings Officer

Auxiliary aids for persons with disabilities are available upon advance request.

RULEMAKING ACTION

ADOPT: OAR 918-400

AMEND: OAR 918-400

REPEAL: OAR 918-400

RENUMBER:

AMEND & RENUMBER:

Stat. Auth.: ORS 455.030 & 460.085

Other Auth.:

Stats. Implemented: ORS 455.030 & 460.085

RULE SUMMARY

The proposed rules adopt minimum safety standards for the safe installation, inspection and operation of elevators in Oregon that will be referred to as the 2011 Oregon Elevator Specialty Code. The proposed rules adopt provisions of national model elevator codes and standards for use in Oregon and make certain Oregon-specific amendments to the model code language.

Additional rules are amended to change the format of the tables with no changes to the text.

The Agency requests public comment on whether other options should be considered for achieving the rule's substantive goals while reducing the negative economic impact of the rule on business.

December 23, 2011 by 5 p.m.

Last Day for Public Comment (Last day to submit written comments to the Rules Coordinator)

	Mark Long	
Signature	Printed name	Date

Secretary of State
STATEMENT OF NEED AND FISCAL IMPACT

A Notice of Proposed Rulemaking Hearing or a Notice of Proposed Rulemaking accompanies this form.

Department of Consumer and Business Services, Building Codes Division

918

Agency and Division

Administrative Rules Chapter Number

Adopts the 2011 Oregon Elevator Specialty Code

Rule Caption (Not more than 15 words that reasonably identifies the subject matter of the agency's intended action.)

In the Matter of: Amending, adopting, and repealing OAR 918-400

Statutory Authority: ORS 455.030 & 460.085

Other Authority:

Stats. Implemented: ORS 455.030 & 460.085

Need for the Rule(s): The Building Codes Division adopts national model building codes and standards in order to protect public safety by ensuring the safe construction, installation, maintenance and repair of elevators. Adopted codes and standards must be updated to reflect technological changes and industry practices.

Documents Relied Upon, and where they are available: Elevator Code Review Committee minutes from September 6, 2011; Electrical and Elevator Board minutes from November 17, 2011; and draft rules. These materials are available from the division's Rules Coordinator located at 1535 Edgewater Street NW, Salem, Oregon 97309 or the division's website: www.bcd.oregon.gov.

Fiscal and Economic Impact: The division has determined that these proposed changes will not have any fiscal or economic impact on state agencies, units of local government, the public or small businesses. Oregon amendments were added for clarity and increased public safety but are not expected to impose additional costs.

Statement of Cost of Compliance:

1. Impact on state agencies, units of local government and the public (ORS 183.335(2)(b)(E)): Based on the information available to the division, the division has determined that these proposed rules will have no foreseeable significant fiscal impact on state agencies, units of local governments, or the public outside of the obtaining new code books and training.
2. Cost of compliance effect on small business (ORS 183.336):
 - a. Estimate the number of small businesses and types of business and industries with small businesses subject to the rule: There are approximately 500 individuals in Oregon who possess elevator-specific licenses. The division is unable to determine how many small businesses will be impacted by the proposed rule. Only small businesses and industries that own, operate, repair or maintain elevators or escalators will be affected.
 - b. Projected reporting, recordkeeping and other administrative activities required for compliance, including costs of professional services: The proposed rules do not impose any additional reporting, recordkeeping, or other administrative activities on small businesses.
 - c. Equipment, supplies, labor and increased administration required for compliance: The proposed rules do not impose any additional requirements on equipment, supplies, labor, or increased administration for small businesses.

How were small businesses involved in the development of this rule? Small businesses were represented on the Elevator Code Advisory Committee and the Electrical and Elevator Board, both of which reviewed these rules on September 6, 2011 and November 17, 2011, respectively.

Administrative Rule Advisory Committee consulted?: Yes.

If not, why?:

Signature Mark Long Date
Printed name

**2011 Oregon Elevator Specialty Code
Draft Rules
November 17, 2011**

918-400-0455

Adopted Oregon Elevator Specialty Code

(1) Effective January 1, ~~2009~~2012, the ~~2008~~2011 **Oregon Elevator Specialty Code** is comprised of:

(a) The Oregon Specialty Lift Code, 2005 edition; and

(b) Four national model codes published by the American Society of Mechanical Engineers (**ASME**), as amended by the Building Codes Division in OAR 918-400-0458, which are the:

(A) Safety Code for Elevators and Escalators, ASME A17.1-~~2007~~2010;

(B) Guide for Inspection of Elevators, Escalators and Moving Walks, ASME A17.2-~~2007~~2010;

(C) Standard for Elevator Suspension, Compensation, and Governor Systems, ASME 17.6-2010;

(D) Safety Standard for Platform Lifts and Stairway Chairlifts, ASME A18.1-20052008; and

(E) Safety Standard for Belt Manlifts, ASME A90.1-20032009.

(2)(a) Referenced standards referred to within adopted national model codes shall recognize the latest Oregon adopted edition unless otherwise specified in this rule.

(b) Notwithstanding any licensing or certification provisions contained in the model codes adopted in subsection (1) of this section for inclusion in the **Oregon Elevator Specialty Code**, the standards and requirements applicable to elevator business and trade licenses, as well as inspector certifications, issued by the Building Codes Division are established in ORS chapters 455, 460, and 479, and OAR chapter 918, divisions 30, 90, and 282.

[Publications: Publications referenced are available for review at the agency.]

Stat. Auth.: ORS 455.030 & 460.085

Stats. Implemented: ORS 455.030 & 460.085

Hist.: DC 25-1982, f. & ef. 12-16-82; DC 12-1986(Temp), f. & ef. 7-8-86; DC 10-1987, f. & ef. 4-13-87; Renumbered from 814-030-0005; BCA 35-1989, f. 12-22-89, cert. ef. 1-1-90; BCA 7-1992, f. & cert. ef. 4-10-92; BCA 26-1992, f. 12-29-92, cert. ef. 1-1-93; BCA 13-1993(Temp), f.6-23-93, cert. ef. 7-1-93; BCA 17-1993, f. 8-24-93, cert. ef. 9-1-93; BCA 24-1993, f. 10-22-93, cert. ef. 11-1-93; BCA 35-1993, f. 12-14-93, cert. ef. 1-1-94; BCD

**2011 Oregon Elevator Specialty Code
Draft Rules
November 17, 2011**

21-1994, f. 9-13-94, cert. ef. 9-15-94; BCD 18-1995, f. & cert. ef. 12-15-95; Renumbered from 918-400-0010; BCD 3-1997, f. 3-18-97, cert. ef. 4-1-97; BCD 20-1997, f. 12-24-97, cert. ef. 1-1-98; BCD 13-1999, f. & cert. ef. 10-1-99, Renumbered from 918-400-0520; BCD 3-2003, f. 2-28-03, cert. ef. 3-1-03; BCD 2-2005, f. 3-16-05, cert. ef. 4-1-05; BCD 17-2006, f. 12-29-06, cert. ef. 1-1-07; BCD 34-2008, f. 12-31-08, cert. ef. 1-1-09

918-400-0458

Amendments to the Oregon Elevator Specialty Code

(1) The **2008 Oregon Elevator Specialty Code**, adopted at OAR 918-400-0455, is amended pursuant to OAR chapter 918, division 8. Amendments to the **2008 Oregon Elevator Specialty Code** are provided in this rule, along with the title of the amended code and a descriptive caption of the amendment.

(2) Effective January 1, ~~2009~~**2011**, the Safety Code for Elevators and Escalators, ASME A17.1-~~2007~~**2010**, is amended by the adoption of Oregon specific amendments. The Oregon specific amendments are published in their entirety at [Table 2-L](#).

NOTE: Table 2 L is printed at the end of Division 400 beginning on page 15 and is available on the division's Web site at <http://www.bcd.oregon.gov/rules.html#oar>

[Publications: Publications referenced are available for review at the agency.]

Stat. Auth.: ORS 455.030 & 460.085

Stats. Implemented: ORS 455.030 & 460.085

Hist.: BCD 17-2006, f. 12-29-06, cert. ef. 1-1-07; BCD 34-2008, f. 12-31-08, cert. ef. 1-1-09

Table 2-L
Oregon Amendments to the 20072010 Edition of the
American Society of Mechanical Engineers A17.1

Section 2.1.1	"Hoistway enclosures shall conform to 2.1.1.1, 2.1.1.2, or 2.1.1.3. <u>The interior surface of all hoistway enclosures shall be substantially smooth, without sharp edges or protrusions (e.g., screws, nails, sheet metal edges, and open framework). Drywall screws or similar fastenings that penetrate the inside hoistway wall to maintain structural integrity shall be guarded in such a manner as to prevent personal injury. In all other cases, the screws or similar fastenings shall be flush with the interior surface of the hoistway enclosure.</u> "
Section 2.1.4	"...and other components sensitive to excessive movement or deflection. <u>Where smoke-doors are installed directly in front of hoistway entrance they shall not:</u> <u>(a) Be mechanically fastened to the entrance frames; or</u> <u>(b) Prevent egress from or access to the elevator car.</u> "
Section 2.7.2.1	"A clear path of not less than 450 mm (18 in.) 600 mm (24 in.) shall be provided to all components that require maintenance."
Section 2.7.2.3	"A clearance of not less than 450 mm (18 in.) 600 mm (24 in.) shall be provided in the direction required for maintenance access."
Section 2.7.3.2.2	"Where the passage is over a roof having a slope exceeding 15 deg from the horizontal, or over a roof where there is no parapet or guardrail at least 1,070 mm (42 in.) high around the roof or passageway, a permanent, unobstructed and substantial walkway not less than 600 mm (24 in.) wide, equipped on the side sloping away from the walk with a railing conforming to 2.10.2.1, 2.10.2.2, and 2.10.2.3, shall be provided from the building exit door at the roof level to the means of access. <u>Access routes shall be adequately illuminated so as to clearly indicate the access route to the machine room, machinery space, control room, or control space.</u> "
Section 2.7.3.3	<u>"(d) Means of access need to comply with Oregon OSHA standards. See Appendix A."</u>
Section 2.7.3.3.67	<u>"Exceptions to Stairways"</u> <u>"Vertical ladders with handgrips may be used in lieu of stairs under the following conditions:</u> <u>(a) Access to an overhead machinery space is less than 2440 mm (96 in.) from floor level and access to the overhead machinery space is from within the machine room; or</u> <u>(b) In existing buildings where installation of a stair would require alterations to structural elements or the stair would obstruct an egress corridor. Fixed ladders, when installed, shall be provided with a means for safely transporting tools and maintenance materials to and from the upper machinery level. The means shall be operable from the top and bottom of the ladder. Where the access door or panel is through the side of the machinery space, the ladder shall terminate at a landing conforming to OSHA standards for fixed ladders.</u>
Section 2.7.3.4.78	<u>"Machine Room Door Sign"</u> <u>"Each elevator machine room, machinery space, control room, or control space not located within the machine room shall have a sign posted on the outside of the access door. The sign shall read: 'Authorized Personnel Only, Storage or Installation of Equipment Not Pertaining to the Elevator is Prohibited.' Signs, frame mountings, and window inserts, if provided, shall be of a durable, non-breakable material."</u>
Section 2.7.3.4.8 8.6.1.4.3	<u>"Safety Test Logs"</u> <u>"All maintenance and test logs shall be posted in plain view in the elevator machine room. Logs shall indicate the individual or licensed elevator contractor performing the tests and the most recent month and year of such tests."</u>
Section 2.7.3.4.9	<u>"Seismic Devices"</u> <u>"The following shall be tested a minimum of once in each 12 months from date of</u>

<p>8.11.2.1.2(oo)</p>	<p><u>installation and shall not exceed manufacturer's instructions:</u> <u>(a) Seismic switch;</u> <u>(b) Counterweight Derailment switch;</u> <u>(c) Elevator operation in response to the activation of a seismic sensing device as required by 8.4.10.1.1. The results of tests shall be kept in a log located in the elevator machine room and posted in plain view. The log shall show, as a minimum, the most recent date the test was performed and name of the licensed elevator contractor or qualified individual performing the tests."</u></p>
<p>Section 2.7.3.4.10 8.6.4.19.11(c)</p>	<p><u>"Rope Brakes"</u> <u>"Rope brakes shall be tested annually and tagged by the licensed elevator contractor performing the test. The tag shall indicate the name of the contractor or qualified technician performing the test and the most recent month and year of the test. Rope brakes shall be tested using the manufacturer's instructions as the minimum requirements."</u></p>
<p>Section 2.7.3.4.11 8.6.5.13.1</p>	<p><u>"Seismic Valves"</u> <u>"Seismic valves shall be re-tested and sealed whenever the seal has been removed or broken. Seismic valves shall have the adjusting means sealed and tagged. The tag shall indicate the date of the most recent test and the licensed elevator contractor performing such tests. Any readjustment shall cause the seal to break or will give visual indication that the adjustment has been altered."</u></p>
<p>Section 2.7.9.1.1</p>	<p>"Where practicable, the light control switch shall be located on the lock jamb side of the access door. The illumination shall be reasonably distributed over the entire floor area where access to equipment is required."</p>
<p>Section 2.7.9.2</p>	<p>"...Or where specified by the equipment manufacturer, in the machinery space. Where no manufacturer's specifications are available, the machine room temperature shall be maintained within the range of 13° C (55° F) and 38° C (100° F)."</p>
<p>Section 2.8.1</p>	<p>(a) Only machinery and equipment used directly in connection with the elevator shall be permitted in elevator hoistways, machinery spaces, machine rooms, control spaces, and control rooms, unless approved by the Building Codes Division. (b) Drains shall not be installed in elevator machine rooms, machinery spaces, control rooms or control spaces. (c) Security interface panels and relays used only in conjunction with elevator control may be installed in elevator machine rooms, machine spaces, control rooms or control spaces. No other part of the security system is permitted to be installed in these spaces.</p>
<p>Section 2.8.1.1</p>	<p><u>Drains shall not be installed in elevator machine rooms, machinery spaces, control rooms or control spaces.</u></p>
<p>Section 2.8.1.2</p>	<p><u>Security interface panels and relays used only in conjunction with elevator control may be installed in elevator machine rooms, machine spaces, control rooms or control spaces. No other part of the security system is permitted to be installed in these spaces.</u></p>
<p>Section 2.14.7.1.4</p>	<p>"...The light switch shall be accessible from the landing when accessing the car top. Where pendant style portable work lights are provided, an additional stationary light fixture shall be provided."</p>
<p>Section 2.20.11</p>	<p><u>"Suspension"</u> <u>"Suspension means not covered by ASME 17.1-2007 shall be approved by the authority having jurisdiction, providing they comply with:</u> <u>(a) Requirement 2.20.2, Wire Rope Data;</u> <u>(b) Requirement 2.20.3, Factor of Safety;</u> <u>(c) Requirement 2.20.4, Minimum Number and Diameter of Suspension Means. The diameter of the suspension means shall be permitted to deviate to accommodate other configurations of suspension means; and</u> <u>(d) Requirement 2.20.9, Suspension-Rope Fastening. The suspension-rope fastening shall be permitted to deviate from this section so as to be compatible with the</u></p>

	suspension means. The strength and durability of the suspension rope fastening device shall not diminish the safety factor of the suspension means.”
Section 2.27.1.1.3	(a) through (i), see model code language “(j) Telephone lines, where provided, are not required to be dedicated. However, the failure or use of any single device, including other elevator communication devices, connected to the same telephone line shall not render any remaining elevator telephone inoperative.”
Section 2.27.3.2.1	“In jurisdictions not enforcing the NBCC, fire alarm initiating devices used to initiate Phase I Emergency Recall Operation shall be installed in conformance with the requirements of NFPA 72, and shall be located: (a) At each floor served by the elevator, except as modified in this requirement <u>provided in Section 2.27.3.2.7;</u> (b) In the associated elevator machine room; and (c) In the elevator hoistway, when sprinklers are located in those hoistways, (d) Fire alarm initiating devices are not required in elevator lobbies exposed directly to the outside atmosphere. Where provided, they must operate as required by Section 2.27.3. (e) Where an elevator has fire alarm initiating devices located only in the elevator machine room, hoistway, or both locations, and the building is not provided with a fire alarm control panel, the fire alarm control unit shall be permitted to be omitted, providing the elevator operation defaults to Phase I Emergency Recall Operation if either fire alarm initiating device or its related circuit fails. (f) Fire alarm panels, annunciators and associated wiring shall not be installed in elevator machine rooms or control spaces. Only panels and relays necessary to directly interface with the elevator control shall be permitted to be installed in elevator machine rooms or control spaces, unless approved by the Building Codes Division. (g) In existing buildings with an existing fire alarm control system that is not capable of supervising detectors used for elevator recall, fire alarm initiating devices specific to elevator recall shall be permitted to be connected to a separate control unit. (h) Annunciator panels used to supervise fire alarm initiating devices used for elevator recall are required to be located in an area of the building where the panel can be readily seen and heard.”
Section 2.27.3.2.7	<u>(a) Fire alarm initiating devices are not required in elevator lobbies exposed directly to the outside atmosphere. Where provided, they must operate as required by Section 2.27.3.</u> <u>(b) Where an elevator has fire alarm initiating devices located only in the elevator machine room, hoistway, or both locations, and the building is not provided with a fire alarm control panel, the fire alarm control unit shall be permitted to be omitted, providing the elevator operation defaults to Phase I Emergency Recall Operation if either fire alarm initiating device or its related circuit fails.</u> <u>(c) Fire alarm panels, annunciators and associated wiring shall not be installed in elevator machine rooms or control spaces. Only panels and relays necessary to directly interface with the elevator control shall be permitted to be installed in elevator machine rooms or control spaces, unless approved by the Building Codes Division.</u> <u>(d) In existing buildings with an existing fire alarm control system that is not capable of supervising detectors used for elevator recall, fire alarm initiating devices specific to elevator recall shall be permitted to be connected to a separate control unit.</u> <u>(e) Annunciator panels used to supervise fire alarm initiating devices used for elevator recall are required to be located in an area of the building where the panel can be readily seen and heard.”</u>
Section	“...provided that it is accessible from outside the hoistway to elevator personnel only (see

3.19.4.1	8.1). <u>Notwithstanding the seismic valve required by 8.4.11.2, an additional supply line shutoff valve is required in the elevator pit.</u>
Section 4.3	Not adopted
Section 5.3.3 Title	<u>“Private Residence Elevators- Machine and Control Rooms</u>
Section 5.3.3.1	<u>“Separate machine rooms are not required for residential elevator installations. Where provided, they shall comply with the following: (a) The enclosure shall be large enough to provide electrical and working clearances as required by the Oregon Electrical Specialty Code. (b) Permanent electrical lighting shall be provided in the room to clearly illuminate all equipment within the room. (c) The room shall be provided with a door that is capable of being locked when the room is not occupied.”</u>
Section 5.3.3.2	<u>“Elevator machines and controllers installed in hoistways shall comply with the following, unless otherwise approved by the division: (a) A means of access from outside the hoistway shall be provided for maintenance and repairs. (b) The size and location of the access panel(s) shall be sufficient to permit maintenance and repairs to the equipment without requiring complete bodily entry into the hoistway. (c) Access panels shall not be located in the ceiling of the hoistway. (d) The access panel(s) shall be provided with an electric contact that prevents operation of the elevator unless all panels are closed and locked.”</u>
Section 5.4.17	<u>“Private Residence Inclined Elevators- Machine and Control Rooms” “Machine and control rooms and machinery and control spaces shall comply with Section 5.3.3 as applicable.”</u>
Section 5.9	Not adopted
Section 5.11 Title	<u>“Correction Facility Elevators”</u>
Section 5.11.1	<u>“Scope” “Elevators governed under this section of the code are intended to be used in correctional facilities for the transport of inmates. These elevators are under sole control by the correctional facility staff and as such, are allowed to modify certain requirements where security and personnel safety are necessary. These minimum safety standards must be approved by the division before implementation. Correctional facility elevators shall comply with the applicable requirements of ASME A17.1 2007 <u>2010</u> except as modified herein.”</u>
Section 5.11.2 Title	<u>“Operation and Control”</u>
Section 5.11.2.1	<u>“In-car emergency stop switches as required by 2.26.2 may be omitted when the elevator car is: (a) Continually monitored by audio-visual equipment; and (b) Remotely controlled from a single location.”</u>
Section 5.11.2.2	<u>“Emergency Signaling Devices” “Emergency signaling devices are not required where the elevator complies with 5.11.2.”</u>
Section 5.11.2.3	<u>“Fire Service Operation” “Except as modified by Part 5.11, fire service operation shall be provided as required by 2.27.3. (a) ‘Phase I Emergency Recall’ Operation shall comply with 2.27.3.1. (b) ‘Phase II Emergency In-Car’ Car operation may be controlled from a remote location provided the elevator complies with 5.11.2. 1 In all other aspects the elevator shall operate as required by 2.27.3.3.”</u>

<p>Section 5.11.3</p>	<p><u>“Pit and Machinery Space Access”</u> <u>“(a) Pit access shall comply with 2.2.4, except that:</u> <u>(1) Access to pits and machinery spaces shall be provided with a positive key-locking device on the pit door;</u> <u>(2) The locking device must be designed so the door cannot be closed from the inside if the lock is engaged;</u> <u>(3) The pit doors shall be kept closed and locked when not in use; and</u> <u>(4) Pits shall only be accessible by elevator personnel.</u> <u>(b) Where pits are only accessible from the lowest landing, pit access shall comply with 2.2.4.”</u></p>
<p>Section 5.11.4</p>	<p><u>“Hoist way Access”</u> <u>“Hoist way doors are not required to allow manual opening from inside the elevator car at the landing if:</u> <u>(a) The door operation is controlled at a single location; and</u> <u>(b) The elevator car position is indicated at the monitoring station.”</u></p>
<p>Section 5.11.5</p>	<p><u>“Emergency Door”</u> <u>“Notwithstanding 2.11.6, emergency doors are not required if the elevator is located in a high security area.”</u></p>
<p>Section 7.1.7.4</p>	<p>“Requirement 2.7.3.1 does not apply. A means of access to dumbwaiter machine rooms and overhead machinery spaces shall be provided, from outside the hoist way, for elevator personnel. <u>A permanent stair or ladder is required when the machinery is located within the hoist way and the uppermost part of the access panel is located 2440-mm (96-in.) or more above a landing. Design and installation of fixed ladders shall comply with OSHA standards for fixed ladders. Stairs, when provided, shall comply with 2.7.3.3.4.”</u></p>
<p>Section 8.6</p>	<p>“Requirement 8.6 applies to maintenance, repairs and, replacements and testing.</p> <p>NOTES: (1) See 8.7 for alteration requirements. (2) See “General” in Preface for assignment of responsibilities. (3) <u>It is the intent of this section to ensure that the original design and safe operation of the equipment are preserved through a regimen of periodic maintenance, testing and repair. Where equipment indicates a deviation from the original design or operation, corrections shall be made to restore the equipment to comply with the applicable safety standards at the time of installation or alteration.”</u></p>
<p>Section 8.6.1.2.3</p>	<p><u>“Unless otherwise specified in this code, all areas governed by this rule shall be kept clean.”</u></p>
<p>Section 8.6.1.6.2</p>	<p>“... All excess lubricant shall be cleaned from the equipment. Containers used to catch leakage shall not be allowed to overflow. <u>Rags or other materials not specifically designed for oil absorption shall not be left in or under gear-reduction-unit drip pans, machines, pits, or other areas where oil may potentially accumulate.</u> <u>Once saturated, materials specifically designed for oil absorption shall be properly discarded and shall be permitted to be renewed as necessary.”</u></p>
<p>Section 8.6.1.6.3</p>	<p>(a) through (ef), see model code language <u>“(fg) Disconnected wires shall be properly insulated from any point of electrical contact and identified by their previous controller connection designation. Wires or control components not intended for future use or rendered unnecessary due to circuit modifications shall be completely removed from the control circuit.”</u></p>
<p>Section 8.6.3.1.1</p>	<p><u>“Replacements Necessitated by Obsolescence”</u> <u>“Repairs of existing equipment requiring materials or parts of a different design, due to obsolescence of direct replacement parts, shall not be considered an alteration unless the repair involves a change of an entire certified, listed, or structural assembly (e.g.,</u></p>

	<u>controller, machine and drive motor, door and door frame, car or counterweight frame). New electrical parts must be properly listed or certified as required by ASME A17.1 and related codes.”</u>
Section 8.6.5.8	“Hydraulic cylinders installed below ground shall conform to 3.18.3.4, or the elevator shall conform to 8.6.5.8(a), or 8.6.5.8(b), or (c): (a) the elevator shall be provided with car safeties conforming to 3.17.1 and guide rails, guide-rail supports, and fastenings conforming to 3.23.1; or (b) the elevator shall be provided with a plunger gripper conforming to 3.17.3. The plunger gripper shall grip the plunger when the applicable maximum governor tripping speed in Table 2.18.2.1 is achieved; or <u>(c) the elevator’s jack assembly shall be replaced upon upgrade; until that time, monthly monitoring of oil loss is required.”</u>
Section 8.6.5.1317	<u>“Additional Requirements – Drip Pans”</u> <u>“Hydraulic machine drip pans shall be kept clean and dry. Minor accumulation is allowed between regularly scheduled maintenance visits but in no case shall the drip pan be allowed to overflow.</u>
Section 8.6.8.13	“The interior of escalators, moving walks, and their components shall be cleaned to prevent an accumulation of oil, grease, lint, dirt, and refuse. The frequency of the Internal cleanings will depend on service and conditions, but an examination to determine if cleaning is necessary shall be required at least once a year <u>Internal cleanings shall occur at least once every two years. The maintenance contractor must provide the area inspector with one week’s advance notice to allow the inspector to schedule an internal inspection that coincides with the cleaning.”</u>
Section 8.7.2.14.5	<u>“Car Operating Fixtures”</u> <u>“Where an alteration involving fire service operation is performed and the car operating fixtures are not altered, 2.27.3.3.7 and 2.27.3.3.8 are not required. All other fire service operation requirements must comply with the Section 2.27.3.”</u>
Section 8.7.3.23.1	“Where a hydraulic jack is installed, altered, or replaced, it shall conform to 3.18 and 8.4.11.29.”
Section 8.7.3.23.8	<u>“Installation of New Hydraulic Power Unit”</u> <u>“Where the alteration involves the installation of a new hydraulic power unit, it shall also conform to the requirements of 8.4.11.2, 8.4.11.3, and 8.4.11.6.”</u>
Section 8.10.1.5	<u>“Test Weights”</u> <u>“Unless otherwise specified in this code, all tests for new or altered equipment shall require the use of test weights to verify design lifting capacity, pressure relief settings, capabilities of car safety mechanisms, and structural integrity.”</u>
Section 8.11.1.1.2(a)	“(a) Periodic tests as required in 8.6 shall be witnessed by an inspector employed by the authority having jurisdiction, or by persons authorized by the authority having jurisdiction, <u>when deemed necessary by the authority having jurisdiction.”</u>
Section 8.11.2.21.6	“Firefighters’ emergency operation shall be tested to determine conformance with the applicable requirements (Part 6). <u>Firefighters’ emergency operation shall be tested at least once each calendar quarter (i.e., once every three months). Fire alarm initiating devices associated with Phase I Emergency Recall Operation shall be tested at least once each calendar year in conjunction with one of the quarterly tests.</u> <u>The quarterly test shall include response to the Phase I key operation and at least a one floor run to determine if Phase II is operating properly. Fire alarm initiating device testing shall be performed to determine if the elevator(s) will still properly respond to a detector activation. A record of findings shall be available to elevator personnel and the authority having jurisdiction.”</u>
Appendix A	<u>“Appendix A-</u> <u>See Oregon Administrative Rules chapter 437, division 2:</u> <u>http://www.sos.state.or.us/archives/rules/OARS_437/437_tofc.html</u>

October 24, 2011 - Deletions from current table are shown in RED, additions are shown in BLUE

	For additional Oregon OSHA requirements: http://www.cbs.state.or.us/osa
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