Secretary of State Certificate and Order for Filing

PERMANENT ADMINISTRATIVE RULES

I certify that the attached copies* are true, full and correct copies of the PERMANENT Rule(s) adopted on [Upon Filing] by the

Date prior to or same as filing date

Department of Consumer and Business	s Services, Building Codes Division	918
Agency and Division		Administrative Rules Chapter Number
Shauna M. Parker	PO Box 14470, Salem, OR 97309	(503) 373-7438
Rules Coordinator	Address	Telephone
to become effective [January 1, 2009]. Date upon filing or later	Rulemaking Notice was published in	the [November 2008] Oregon Bulletin.** Month and Year
	RULE CAPTION	
Adopts the 2008 Oregon Elevator Spec		
Not more than 15 words that reasonably	y identifies the subject matter of the age	ncy's intended action.
	RULEMAKING ACTION List each rule number separately (000-000-0s (Adopted or Renumbered rules) with the	
REPEAL:		
RENUMBER:		FILED
AMEND & RENUMBER:		DEC 3 1 2008
Stat. Auth.: ORS 455.030 & 460.085		ARCHIVES DIVISION SECRETARY OF STATE
Other Auth.:		
Stats. Implemented: ORS 455.030 & 46	0.085	

RULE SUMMARY

This rule adopts the **2008 Oregon Elevator Specialty Code**, which is comprised of the following national model codes: the *Safety Code for Elevators and Escalators*, ASME A17.1-2007; the *Guide for Inspection of Elevators*, Escalators and Moving Walks, ASME A17.2-2007; the Safety Standard for Platform Lifts and Stairway Chairlifts, ASME A18.1-2005; and the Safety Standard for Belt Manlifts, ASME A90.1-2003. The **2008 Oregon Elevator Specialty Code** also includes Oregon-specific amendments to the Safety Code for Elevators and Escalators, ASME A17.1-2007, as well as the 2005 edition of the Oregon Specialty Lift Code.

Authorized Signer Printed name

*With this original, file one photocopy of certificate, one paper copy of rules listed in Rulemaking Actions, and electronic copy of rules. **The Oregon Bulletin is published the 1st of each month and updates rules found in the OAR Compilation. For publication in Bulletin, rule and notice filings must be submitted by 5:00 pm on the 15th day of the preceding month unless this deadline falls on a weekend or legal holiday, when filings are accepted until 5:00 pm on the preceding workday.

ARC 930-2005

918-400-0455

Adopted Oregon Elevator Specialty Code

- (1) Effective January 1, 2009, the **2008 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, 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;
- (B) Guide for Inspection of Elevators, Escalators and Moving Walks, ASME A17.2-2007;
 - (C) Safety Standard for Platform Lifts and Stairway Chairlifts, ASME A18.1-2005; and
 - (D) Safety Standard for Belt Manlifts, ASME A90.1-2003.
- (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 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

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, the Safety Code for Elevators and Escalators, ASME A17.1-2007, 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 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

<u>Table 2-L</u> <u>Oregon Amendments to the 2007 Edition of the American Society of Mechanical Engineers A17.1</u>

Section 2.1.1	"Hoistway enclosures shall conform to 2.1.1.1, 2.1.1.2, or 2.1.1.3. 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
1	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."
Section 2.1.4	"and other components sensitive to excessive movement or deflection.
Section 2.1.	Where smoke-doors are installed directly in front of hoistway entrance they
	shall not:
ļ	(a) Be mechanically fastened to the entrance frames; or
†	(b) Prevent egress from or access to the elevator car."
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Section	"A clear path of not less than 450 mm (18 in.) 600 mm (24 in.) shall be provided
2.7.2.1	to all components that require maintenance."
Section	"A clearance of not less than 450 mm (18 in.) 600 mm (24 in.) shall be provided
2.7.2.3	in the direction required for maintenance access."
Section	"Where the passage is over a roof having a slope exceeding 15 deg from the
2.7.3.2.2	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. 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."
Section	"(d) Means of access need to comply with Oregon OSHA standards. See
2.7.3.3	Appendix A."
Section	"Exceptions to Stairways"
2.7.3.3.6	"Vertical ladders with handgrips may be used in lieu of stairs under the
	following conditions:
	(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
	(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.
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Section	"Machine Room Door Sign"
2.7.3.4.7	"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."
Section	"Safety Test Logs"
2.7.3.4.8	"All maintenance and test logs shall be posted in plain view in the elevator
2.7.3.4.0	machine room. Logs shall indicate the individual or licensed elevator
	contractor performing the tests and the most recent month and year of such
	tests."
Section	"Seismic Devices"
2.7.3.4.9	"The following shall be tested a minimum of once in each 12 months from
	date of installation and shall not exceed manufacturer's instructions:
	(a) Seismic switch;
	(b) Counterweight Derailment switch;
	(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."
Section	"Rope Brakes"
2.7.3.4.10	"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."
Section	"Seismic Valves"
2.7.3.4.11	"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."
Section	"Where practicable, the light control switch shall be located on the lock-jamb side
2.7.9.1	of the access door. The illumination shall be reasonably distributed over the
_	entire floor area where access to equipment is required."
Section	"Or where specified by the equipment manufacturer, in the machinery space.
2.7.9.2	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)."
Section 2.8.1	(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 space control rooms or control spaces. No other part of the security system is permitted to be installed in these spaces. Section 2.14.7.1.4 Section 2.20.11 Section 2.20.11 Section 2.20.11 Section 2.20.2, Wire Rope Data; (b) Requirement 2.20.3, Factor of Safety; (c) Requirement 2.20.4, Minimum Number and Diameter of Suspension Means. The diameter of the suspension means shall be permitted to
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 space control rooms or control spaces. No other part of the security system is permitted to be installed in these spaces. Section 2.14.7.1.4 Section 2.20.11 Where pendant style work lights are provided, an additional stationary light fixture shall be provided." Section 2.20.11 "Suspension" "Suspension means not covered by ASME 17.1-2007 shall be approved by the authority having jurisdiction, providing they comply with: (a) Requirement 2.20.2, Wire Rope Data; (b) Requirement 2.20.3, Factor of Safety; (c) Requirement 2.20.4, Minimum Number and Diameter of Suspension
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deviate to accommodate other configurations of suspension means; and
(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 suspension means. The strength and durability of the
suspension-rope fastening device shall not diminish the safety factor of the
suspension means."
Section (a) through (i), see model code language
2.27.1.1.3 "(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 "In jurisdictions not enforcing the NBCC, fire alarm initiating devices used to
2.27.3.2.1 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; (b) In the associated elevator machine records and
(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

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 3.19.4.1 only (see 8.1). Notwithstanding the seismic valve required by 8.4.11.2, an additional supply line shutoff valve is required in the elevator pit." Section 4.3 Not adopted Section 5.3 "Private Residence Elevators- Machine and Control Rooms Title Section "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." Section "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 to the equipment without requiring complete bodily entry into the hoistway. (b) The access panel(s) shall be provided with an electric contact that prevents operation of the elevator unless all panels are closed and locked." "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." Section 5.9 Not adopted "Correction Facility Elevato		
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(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 3.19.4.1 only (see 8.1). Notwithstanding the seismic valve required by 8.4.11.2, an additional supply line shutoff valve is required in the elevator pit." Section 5.3 Not adopted "Private Residence Elevators- Machine and Control Rooms "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." Section **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. (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." **Private Residence Inclined Elevators- Machine and Control Rooms** **Geope** **Correction Facility Elevators** **Correction Facility Elevators** **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		
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		necessary. These minimum safety standards must be approved by the

<u> </u>	division before implementation. Connectional facility elevators shall comply
	division before implementation. Correctional facility elevators shall comply
	with the applicable requirements of ASME A17.1 2007 except as modified
	herein."
Section	"Operation and Control"
5.11.2 Title	
Section	"In-car emergency stop switches as required by 2.26.2 may be omitted
5.11.2.1	when the elevator car is:
	(a) Continually monitored by audio-visual equipment; and
	(b) Remotely controlled from a single location."
Section	"Emergency Signaling Devices"
5.11.2.2	"Emergency signaling devices are not required where the elevator complies
	with 5.11.2."
Section	"Fire Service Operation"
5.11.2.3	"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."
Section	"Pit and Machinery Space Access"
5.11.3	"(a) Pit access shall comply with 2.2.4, except that:
5.11.5	(1) Access to pits and machinery spaces shall be provided with a positive
	key-locking device on the pit door;
	(2) The locking device must be designed so the door cannot be closed from the inside if the lock is engaged;
	(3) The pit doors shall be kept closed and locked when not in use; and (4) Pits shall only be accessible by elevator personnel.
	(b) Where pits are only accessible from the lowest landing, pit access shall
G	comply with 2.2.4."
Section	"Hoist way Access"
5.11.4	"Hoist way doors are not required to allow manual opening from inside
	the elevator car at the landing if:
	(a) The door operation is controlled at a single location; and
	(b) The elevator car position is indicated at the monitoring station."
Section	"Emergency Door"
5.11.5	"Notwithstanding 2.11.6, emergency doors are not required if the elevator is
	located in a high security area."
Section	"Requirement 2.7.3.1 does not apply. A means of access to dumbwaiter machine
7.1.7.4	rooms and overhead machinery spaces shall be provided, from outside the hoist
1	way, for elevator personnel. 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
1	ladders. Stairs, when provided, shall comply with 2.7.3.3.4."
	

Section 8.6	"Requirement 8.6 applies to maintenance, repairs and replacements. 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."
Section	"Unless otherwise specified in this code, all areas governed by this rule shall
8.6.1.2.3	be kept clean."
Section	"All excess lubricant shall be cleaned from the equipment. Containers used to
8.6.1.6.2	catch leakage shall not be allowed to overflow.
	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.
	Once saturated, materials specifically designed for oil absorption shall be
	properly discarded and shall be permitted to be renewed as necessary."
Section	(a) through (e), see model code language
8.6.1.6.3	"(f) Disconnected wires shall be properly insulated from any point of
0.0.1.0.5	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."
Section	
8.6.3.1.1	"Replacements Necessitated by Obsolescence" "Benefits of existing againment requiring materials or nexts of a different
8.0.3.1.1	"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., 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."
Section	"Hydraulic cylinders installed below ground shall conform to 3.18.3.4, or the
8.6.5.8	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
1	governor tripping speed in Table 2.18.2.1 is achieved; <u>or</u>
	(c) the elevator's jack assembly shall be replaced upon upgrade; until that
	time, monthly monitoring of oil loss is required."
Section	"Additional Requirements – Drip Pans"
8.6.5.13	"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.
Section	"The interior of escalators, moving walks, and their components shall be cleaned
8.6.8.13	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

8.7.2.14.5 "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." Section "Where a hydraulic jack is installed, altered, or replaced, it shall conform to 3.18 and 8.4.11.2." Section "Installation of New Hydraulic Power Unit" "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." Section "Test Weights" "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." Section "(a) Periodic tests shall be witnessed by an inspector employed by the authority having jurisdiction when deemed necessary by the authority having jurisdiction when deemed necessary by the authority having jurisdiction." Section "Firefighters' emergency operation shall be tested to determine conformance with the applicable requirements (Part 6). 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. 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." Appendix A See Oregon Administrative Rules chapter 437, division 2: http://www.sos.state.or.us/archives/rules/OARS 437/437 tofc.html		
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