LULA - _____

LIMITED USE / LIMITED ACCESS ELEVATORS
ASME A17.1a, 2002, SECTION 5.2, OSSC 1998, NEC 2002

Site Name: _____ Contractor: _____ Date:_____

Description	Rule #	Comments	Passed
Machine Rooms	5.2.1.7	1) When provided, separate machine rooms must comply with Section 101 & NEC Article 620-71:	N/A ☐
		a) stairway access no greater than 60º from horizontal (2.7.3.3)	☐
		b) ladders must conform to ANSI A14.3 (2.7.3.3)	☐
		c) access stairs or ladders must be non-combustible (2.7.3.3)	☐
		d) only elevator equipment is allowed in machine room (2.8.2)	☐
		e) 760 mm (30 in.) x 1830 mm (72 in.) minimum access door (2.7.3.4)	☐
		f) self-closing / self-locking access door (2.7.3.4)	☐
		g) minimum 200 lx (19 ftc) illumination (2.7.5.1)	☐
		h) mechanically or naturally vented (2.7.5.2)	☐
	5.2.1.7.2	i) minimum 2130 mm (84 in.) clear headroom (2.7.7.1)	☐
		j) enclosure must be a minimum of 2000 mm (79 in.) high	☐
	5.2.1.7.4	2) Where the machine is located in the bottom of the hoistway:	N/A ☐
		a) the controller shall be located outside the hoistway or on inside surface of access door.	☐
		b) a means to limit elevator from descending lower than 2000 mm (79 in.) will be provided.	☐
	5.2.1.7.12	3) Machines located inside the hoistway & complete bodily entry is required.	N/A ☐
		a) permanent platform below or level with the machine beams required. (wood, metal or concrete)	☐
		b) cover the entire hoistway width and depth	☐
		c) floor must support 1000 N (225 lbs) 2000 mm^2 (3 in^2) and live load of not less than 6 kPa (125 lb/ft^2) [ref to 2.1.3.3]	☐
		d) open grillwork flooring must reject 25 mm (1 in.) ball	☐
	5.2.1.8	4) Equipment installed in machine rooms must conform to Section 2.8	☐
Equipment Guards	5.2.1.10	Exposed sprockets, gears and pinch-points shall be properly guarded. (refer to Section 2.10)	☐
Machines	5.2.1.24	1) Machines shall conform to Section 2.24	
		a) Drum Machines are allowed providing they conform to Rule 2.24.1:	☐
		b) not provided with counterweights	☐
		c) Sheave pitch diameter shall not be less than 30 times rope diameter. 30 x ___/___= _____"	☐
		d) Actual diameter: _____	☐
PIT AREA			
Counterweights Guards	5.2.1.15	1) Counterweights shall be properly guarded as follows:	N/A ☐
		a) 610 mm (24 in.) chains attached to the bottom of the counterweight spaced approximately 150 mm (6 in.) apart; ***or***	☐
		b) solid guards from a maximum of 300 mm (12 in.) from the floor to a height of not less than 2130 mm (84 in.)	☐
Vertical Clearances/Runby	5.2.1.4	1) Where pit depths of less than 610 mm (24 in.) are provided see 5.2.1.16.2.	
		a) Minimum 610 mm (24 in.) to any equipment installed under platform except within a 300 mm (12 in.) wide parameter from the platform edge. This includes the bolster or pit channels. Actual _____mm _____ in.	☐
		2) The refuge space shall be not less than:	
		a) 610 mm x 1220 mm x 610 mm (24 in. w x 48 in. l x 24 in. h); or	☐
		b) 450 mm x 900 mm x 1100 mm (18 in. w x 35 in. l x 43 in. h)	☐
		c) Actual: _____ mm (w) x _____ mm (l) x _____ mm (h)	☐
		<u>Bottom Runby:</u>	
		d) ≤ 0.15 m/s 30 fpm; 75 mm (3 in.); actual _____ mm _____in.	☐
		e) ≥ 0.15 m/s 30 fpm; 150 mm (6 in.); actual _____ mm _____in.	☐

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Pit Area (cont.)			Passed
Pits (Refer to Section 2.2 for pit requirements and ANSI A14.3; The Standard for Fixed Ladders)	5.2.1.2	1) Pits shall conform to the following: a) Pit ladders shall be installed in all pits greater than 760 mm (30 in.) deep and shall conform to the following: i) minimum 400 mm (16 in.) wide ii) rungs 300 mm (12 in.) on center iii) extend a minimum 1200 mm (48 in.) above sill level iv) be not less than 115 mm (4½ in.) from wall or nearest obstruction	N/A ☐ ☐ ☐ ☐ ☐
	2.2.4.4	2) Pit Access Doors: a) minimum 1825 mm (72 in.) high by 750 mm (29.5 in.) wide b) self-closing & self locking c) keys to be kept on premises d) depth may be reduced to 300 mm (12 in.) providing all equipment can be installed properly.	☐ ☐ ☐ ☐
	2.2.6	3) Pit Stop Switch a) Located by the access door; and b) On multiple car units, located at entrance to each elevator's pit area c) When access is through bottom landing door: i) Approx. 450 mm (18 in.) above sill level. ii) Pits over 1700 mm (67 in.) deep require a second stop switch located about 1220 mm (48 in.) from floor	 ☐ ☐ ☐ ☐
(Illumination readings should be done at least in front and back of the pit channels with the hoistway door closed. Depending on pit area, more than 2 readings may be necessary.)	2.2.5	4) Pit Illumination: a) minimum 100 lx (10 ftc) illumination evenly distributed; Actual _____ ftc. b) light switch located within easy reach of access door c) lamp(s) shall be guarded	 ☐ ☐ ☐
	2.2.2.3	5) Sump Pumps and Drains a) Provide one of the following: b) automatic Start Sump pump c) gravity Drain d) drains are not to be connected directly to a sewer. e) pumps may be connected to a dedicated non-GFCI single receptacle f) sump pumps shall be readily accessible for maintenance g) discharge line must empty into open air outside the hoistway	 ☐ ☐ ☐ ☐ ☐ ☐ ☐
	2.2.2.6	6) Sump covers shall be: a) substantially level with pit floor. b) non-combustible c) prevented from shifting sufficiently to expose sump opening. d) fastenings should not be of the non-removable type.	 ☐ ☐ ☐ ☐
Bottom Car Clearances Alternatives	5.2.1.4.2	1) Mechanical means for arresting descending car: a) must be non-removable b) stop & hold car not less than 900 mm (35 in.) from pit floor (nor more than 2000 mm (79 in.) c) stop the car not less than 300 mm (12 in.) from bottom landing floor level d) stop & hold car with rated load at governor tripping speed e) no part of car may strike the pit floor f) Where the means does not automatically activate with the opening of the hoistway door: i) operated without complete bodily entry into the pit ii) caution "low clearance" sign conspicuously placed with 25 mm (1") letters (must comply with ANSI Z35.1). iii) Provided with a device that conforms to Rule 2.26.1.4 (car top inspection operation)	 ☐ ☐ ☐ ☐ ☐ N/A ☐ ☐ ☐ ☐
Buffers & Bumpers	5.2.1.22 5.2.1.22.1	1) Spring buffers; or 2) Elastomeric bumpers	☐ ☐
Space Below Hoistways	5.2.1.6	1) Must conform to Section 2.6; a) counterweight safeties must be provided	☐ ☐

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Hoistway Area			**Passed**
Hoistway Enclosure Generally must comply with Section 2.1	5.2.1.1	1) must be located in a single hoistway 2) refer to Rule 2.1.3 for floors over hoistway 3) overhead machine room floors must be capable of supporting machines 4) flooring must comply with the building code (may be comprised of wood) 5) equipment installed in hoistway must conform to Section 2.8	☐ ☐ ☐ ☐ ☐
Top of Car Clearances (refer to Section 2.4) ☐☐2.4.4-2.4.5 A data plate must be provided in the pit and in the area of the counterweight buffer indicating the *designed* cwt. runby. The data plate must have 25 mm (1 in.) high letters or numbers and shall be of a permanent and legible type. Actual: _____"	5.2.1.4.3 2.14.12	1) Minimum Refuge Area: a) Minimum horizontal area of 0.5 m^2 (5.4 ft^2) b) Actual Area _____ m^2 _____ ft^2 c) 1100 mm (43 in.) high d) Actual height _____ mm _____ in. 2) Spring buffers; a) $t = R + S + V_g^2(2.588x10^{-5})$ b) t = ____ + ____ + ____^{2}(2.588x10^{-5}) t = maximum travel above top landing (in.) S = cwt. Buffer stroke (in.) R = bottom cwt. Runby (in.) Vg = governor tripping speed (fpm)	☐ ☐ ☐ ☐ ☐ ☐
Top of Car Clearance for Existing Buildings	5.2.1.4.4	1) The following is an alternative to Rule 5.2.1.4.3: a) Mechanical means for arresting ascending car: i) must be non-removable ii) stop & hold car not less than 1100 mm (43 in.) from overhead (refuge space requirement) iii) stop & hold car without rated load at governor tripping speed iv) no part of car may strike the pit floor v) must be operated without complete bodily entry into the hoistway vi) caution "low clearance" sign conspicuously placed with 25 mm (1") letters. (must comply with ANSI Z35.1) vii) car top inspection station can not function until device is in place	 ☐ ☐ ☐ ☐ ☐ ☐ ☐
Horizontal Clearances (Refer to Section 2.5)	5.2.1.5	1) Minimum clearances required for all cars. (Seismic requirements do not apply) a) between car & hoistway; 20 mm (¾ in.) minimum Actual _____ mm _____in. 2) Car sill to hoistway or fascia; a) 125 mm (5 in.) maximum with horizontal doors. Actual _____mm _____in. b) maximum of 20 mm (¾ in.) with swing door from h/w sill to hoistway door. Actual _____ mm _____in.	 ☐ ☐ ☐
Governors & Governor Ropes	5.2.1.18	1) Minimum rope diameter; 6.0 mm (0.25 in.) 2) Maximum tripping speed; 0.38 m/s^2 (75 fpm) 3) Safeties will set without delay upon breakage of suspension means 4) Tiller rope is prohibited	☐ ☐ ☐ ☐
Terminal Stopping Devices *(Rule 2.25.4 does not apply; emergency terminal speed limits are not required)*	5.2.1.25 5.2.1.25(b)	1) Normal terminal stopping devices may be located in the machine room. 2) Final limits for traction elevators must be located in hoistway. 3) Drum Machine requirements: a) bottom final terminal stopping device b) slack cable device c) 2 independent upper terminal stopping switches are required d) must employ a separate device to operate ***one*** upper limit and the lower limit e) Power feed lines shall be open by: i) one or both upper limits; and ii) lower final limit or slack rope switch	☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

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Hoistway (cont.)			**Passed**
Traveling Cables	2.8.1	1) Traveling Cables must conform to the following: a) (620-11) must comply with Table 400 b) (620-41) properly supported at 30 m (100 ft.) or 61m (200 ft.) lengths c) (620-43) shall be protected from damage and snags d) (620-44) run in lengths no greater than 1830 mm (72 in.) outside gutter or conduit. e) (620-83) be properly grounded to the car.	☐ ☐ ☐ ☐ ☐
Suspension Ropes Safety factor	5.2.1.20	1) Minimum hoist rope requirements: a) minimum 3 ropes; Traction elevators b) minimum 2 ropes; Drum Machines c) minimum size; 9.5 mm (3/8") safety factor can not be less than 7.5 $f = \frac{S \times N}{W}$ *N = # of runs of rope; S = breaking strength; W = max. static load*	☐ ☐ ☐ ☐
Landing Entrances	5.2.1.11	1) Must comply with Section 2.11 (except as modified) and be one of the following types: a) horizontal slide; or b) single section swing	☐ ☐
Hoistway Door Locking Devices	5.2.1.12	1) Hoistway doors must be provided with: a) electro-mechanical interlocks b) listed to UL104 standard 2) Door Locks must comply with the following: a) subjected to lab tests specified in Section 8.3.3 (listed to UL104). 3) Identification marking shall be as follows: a) manufacturer's name or logo b) lab name or logo c) model or style number or letter d) rated voltage (AC or DC) e) rated current f) rated test force & movement (for interlocks released by retiring cam) g) month & year tested by lab	☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐
Counterweights	5.2.1.21	May share the same guide rails as the car.	☐
Power Door Operation	5.2.1.13	1) Power car door or gate ***shall*** be provided. 2) Power operated hoistway doors ***may*** be provided. 3) Section 2.13 applies. 4) Door re-opening device required 5) Kinetic energy limits required	☐ ☐ ☐ ☐ ☐
Platform Guards	5.2.1.15.2	Must be as least the depth of the unlocking zone plus 75 mm (3 in.).	☐
Traveling Cables	2.8.2	1) Traveling Cables must conform to the following: a) (620-11) must comply with Table 400 b) (620-43) shall be protected from damage and snags c) (620-44) run in lengths not greater than 1830 mm (72 in.) outside gutter or conduit from point of suspension on car. d) (620-83) be properly grounded to the car. e) must not contact pit floor with car resting on buffers	☐ ☐ ☐ ☐ ☐

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Operating Fixtures	2501.11		Passed
Car Enclosure	5.2.1.14	1) No more than one compartment 2) Escape hatch required if manual operation is not provided. 3) Freight handling equipment is not allowed 4) Car door must comply with the following: a) horizontal slide b) accordion type c) bifold type d) no more than 2 entrances to car	☐ ☐ ☐ ☐ ☐ ☐ ☐
In Car Stop Switch	2.26.2.5	1) Keyed Switch 2) Behind a locked panel	☐ ☐
Operating Control Devices	2.26.1.1 2.26.1.2	Car Operating Station; Check button operation, braille (2.26.12.1), etc. *ADA Requirements for fixtures are located in the OSSC (2000) Chapter 30, Section 3003)*	☐
(ADA req.)	3003.4.2	Leveling Accuracy) 13 mm (½ in.)	☐
(ADA req.)	3003.4.4	Minimum Door Width; 900 mm (35 in.)	☐
(ADA req.)	3003.4.8	1) 900 mm (35 in.) from floor to the alarm button 2) 1370 mm (54 in.) to highest call button	☐ ☐
(ADA req.)	3003.4.9	1) CPI, minimum 13 mm (½ in.) in height 2) Floor Passing Tone (min. 20 dB @1500 Hz)	☐ ☐
(ADA req.)	3003.4.15	Hall and/or Car lanterns (not < 1830 mm (72 in.) from floor)	☐
(ADA req.)	3003.4.6.2	Car Call min. Door time; 3 sec. Actual _____ sec.	☐
Car Emergency Signaling Devices	5.2.1.27 2.27.1	Audible signaling device 80 dBA to 90 dBA @ 3 m (10 ft.) distance	☐
Communication Devices	2.27.1 3003.4.10	1) Telephone device; connect to 24-hr site; 2) ADA compliant; site must know from where call is originating. 3) Phone Cabinet Door pulls must comply with OSSC. Must be opened by wrist or arm action only. 4) The push button to activate the device must have a sign reading, "HELP". 5) Visual signal is required to acknowledge two-communication was established. 6) Call can only be terminated by recipient. 7) Recipient must be able to identify caller. 8) Operating instructions are to next to the HELP button.	☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐
Car Lighting	5.2.1.14 (2.14.7.1)	1) Minimum 50 lx (5 ftc) @ sill; Actual _____lx _____ftc 2) Minimum 2 lamps; Actual _____ lamps 3) E-light; minimum. 2 lx (0.2 ftc) @ COP Actual_____ lx _____ftc	☐ ☐ ☐
Capacity, Speed & Rise	5.2.1.16 5.2.1.16.1(a) 5.2.1.16.1(b) 5.2.1.16.4 5.2.1.16.5	1) Net inside dimension shall not exceed Table 2.16.1: a) Maximum capacity; 635 kg (1400 lbs.) (Actual _____ kg _____ lbs) b) Maximum inside area; 1.67 m^2 (18 ft^2) (Actual _____ m^2 _____ ft^2) c) Maximum rated speed; 0.15 m/s (30 fpm) (Actual _____ m/s _____fpm) d) Maximum rise; 7.6 m (25 ft.) (Actual _____ m _____ft)	 ☐ ☐ ☐ ☐
Capacity Plate & Data Plates	5.2.1.16.2(a) 5.2.1.16.2(b)	1) Capacity plate required in elevator in kg, lbs. or both. 2) Data plates must comply with 2.16.3.2.2. a) Rated load b) Rated speed c) Wire rope data (2.20.2.1) d) Manufacturer's name or trademark e) Rail lubrication instructions (2.17.16)	☐ ☐ ☐ ☐ ☐ ☐
Corridor Illumination	5.2.1.11 (refer to 2.11.10.2)	Minimum 100 lx (10 ftc) @ floor level w/doors closed.	

	Front		Rear		
Landing	lx	ftc	lx	ftc	
1st					☐
2nd					☐
3rd					☐
4th					☐

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Handrail (ADA req.)	3003.4.12	32 - 50 mm (1¼ - 2 in.) Round; @ nominal height of 813 - 915 mm (32 -36 in.); preferably on the rear wall.	☐
Ascending Car Overspeed	5.2.1.19	**Tested with no load in the car.** Must conform to 2.19.1.2	N/A ☐
Unintended Car Movement	5.2.1.19	Must conform to 2.19.2.2	N/A ☐
Manual Operation (optional)	5.2.1.28	May be arranged for manual operation under the following conditions: a) not accessible from inside the car b) not release the brake c) upon removal of the device the car will not move d) mechanical actuation only e) operating instructions shall be posted near the device	N/A ☐ ☐ ☐ ☐ ☐ ☐
Hydraulic Elevators	**5.2.2**	**This Section applies only to Hydraulic Elevators**	
Bottom and Top Runby & Clearances	5.2.2.2	1) Bottom clearances shall comply with: a) Rule 3.4.1; or b) Rule 5.2.1.4.2 c) Minimum bottom runby; 50 mm (2 in.) 2) Top clearances shall comply with: a) Rule 3.4.4; or b) Rule 5.2.1.4.4	 ☐ ☐ ☐ ☐ ☐
Plunger and Cylinder	3.18 3.18.3.7 3.18.3.8.1 3.18.3.8.3 3.18.3.9 3.18.4.1	1) Ensure the following: a) Plunger does not bottom out with car on buffers. b) Oil collection not more than 19 L (5 gal.) 2) Below ground cylinder installations: a) Methods in 3.18.3.8.3 must be designed and installed with a means for monitoring the condition of cylinder protection. b) Construction with materials immune to corrosion c) Completely covered or encased in a material that is immune to corrosion. d) Monitored cathodic protection e) Any means that will provide an immunity level not less than the 3 means in Items b), c), and d) above. 3) Cylinder air and gas relief 4) Stop ring	 ☐ ☐ N/A ☐ ☐ ☐ ☐ ☐ ☐ ☐
Supply Piping	3.19	1) Ensure piping is of appropriate size. (If piping is not distinguishable as to its rating, require documentation as to its characteristics.) 2) Ensure joints are properly fastened and there are no leaks 3) Connections shall only be one or more of the following types: a) welded b) threaded c) grooved d) bolted flange	☐ ☐ ☐ ☐ ☐ ☐
Flexible Hoses and Fittings	3.19.3.3	1) H/P (flexible) hoses shall: a) not be installed in hoistways or through walls. b) have a minimum bending radius of as required by SAE 100 R2 c) be wire reinforced as specified by SAE J5 17D d) withstand 10 times working pressure e) marked as required by SAE f) marked with a replacement date no more than 6 years from installation 2) Labeling: a) Manufacturer's name or trademark b) Type of hose and fitting c) Minimum factory test pressure d) Minimum bending radius e) Date of installation f) Name of elevator contractor 3) Line overspeed valve required.	 ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

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GFI 15 & 20 Amp Receptacles	NEC 620-85	Must be of the GFI type. Shall not extinguish pit lighting if tripped.	☐
Operating Devices *Pertains to all equipment.*	5.2.1.26	Must comply with the following where required or provided:	OK / N/A
		1) 2.26.1.4 Inspection Operation	☐ ☐
		a) Car top	☐ ☐
		b) In-car	☐ ☐
		c) Machine room	☐ ☐
		2) 2.26.1.5 Inspection Operation with Open Door Circuits	☐ ☐
		3) 2.26.2.1 Slack Rope Switch	☐ ☐
		4) 2.26.2.2 MG Running Switch	☐ ☐
		5) 2.26.2.3 Comp-rope Sheave Switch	☐ ☐
		6) 2.26.2.4 Motor Field Sensing Means	☐ ☐
		7) 2.26.2.6 Broken Rope, Tape or Chain Switch	☐ ☐
		8) 2.26.2.7 Pit Stop Switch	☐ ☐
		9) 2.26.2.8 Car Top Stop Switch	☐ ☐
		10) 2.26.2.9 Car Safety Mechanism Switch	☐ ☐
		11) 2.26.2.11 Final Limits	☐ ☐
		12) 2.26.1.14 Hoistway Door Locks	☐ ☐
		13) 2.26.2.15 Car Door / Gate Switch	☐ ☐
		14) 2.26.2.18 Car Top Emergency-Exit Electrical Device	☐ ☐
		15) 2.26.2.19 MG Overspeed Protection	☐ ☐
		16) 2.26.2.21 In Car Stop Switch	☐ ☐
		17) 2.26.2.23 Stop Switch in Remote Machine Rooms	☐ ☐
		18) 2.26.2.24 Stop Switch in Overhead Machinery Space in H/W	☐ ☐
		19) 2.26.2.26 Pit Access Door Electric Contact	☐ ☐
		20) 2.26.2.28 Car Door Interlock	☐ ☐

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TESTING			Passed
Pressure Relief Test to be performed with rated load in car. Relief to be set with car against stop ring.	303.4b (2.14.3)	1) Witness setting of hydraulic valve and record pressure settings. a) Empty car pressure _____ psi b) Working pressure _____ psi c) Relief pressure _____kPa _____ psi @ _____% (max 150%) Note: 1 psi = 6.895 Pa d) Provide dated tag and seal valve.	☐ ☐ ☐ ☐
Fire Service Test (Oregon amendment)	5.2.1.27	1) Phase I only; required to comply with 2.27.3.1.1 thru 2.27.3.2 only. 2) If full fire service is provided it must function according to Section 2.27.3 3) Ensure log is marked with test date and placed in visual location within machine room	☐ ☐ ☐
Pressure Switch	3.26.8	Required when top of cylinder is above tank. Witness actuation of this device.	☐
Low Oil Protection	3.26.9	1) Suitable methods include: a) Direct sensing of liquid level; or b) Pump run-timer; or c) Other means; _____ 2) Upon activation the car shall: a) Return to the lowest level; b) After door time; doors shall close c) Require manual reset of system.	 ☐ ☐ ☐ ☐ ☐ ☐
Car Safeties Actual: Rated Speed _____ m/s _____fpm Tripping Speed _____ m/s _____ fpm	3.17.1 (refer to 2.17)	1) Required on Roped Hydraulic Elevators: a) SOS switch b) governor switch c) overspeed switch for speeds > 0.75 m/s (150 fpm) d) Type A safeties for cars of 0.75 m/s (150 fpm) or less 2) governor tripping speed a) 0-0.63 m/s (0-125 fpm) 0.90 m/s (175 fpm trip) b) 0.75 m/s (150 fpm) 1.05 m/s (210 fpm trip) c) see table 2.18.2.1 for faster speeds **Note:** *The safety switches required must cause main drive power to be removed from the pump motor and control valve when safeties are activated.*	 ☐ ☐ ☐ ☐ ☐ ☐ ☐
Slack Rope Device	3.18.1.2.6	Slack rope device required on roped hydraulic units: 1) Slack rope switch must be of the enclosed manually reset type. 2) May be used as an additional means to initiate safety device	N/A ☐ ☐ ☐
Roping Ratio	3.18.1.2.4	Shall not exceed 1:2	☐
Code Data Plate	8.9	1) Must indicate the code edition 2) Posted in clear view on the disconnect or controller 3) State ID tag may be used for this purpose.	☐ ☐ ☐