

Alterations to Electric Elevators

Code Reference	Inspection	Scope of Alteration	Type of Alteration			
			Alteration		Replacement	
			Modification	Addition	Same	Different make/model
8.7.2.1	x	Hoistway Enclosure	major	major		
8.7.2.1.1		Hoistway Enclosure Walls	minor			
8.7.2.1.2		Addition of Elevator to Existing Hoistway		new		
8.7.2.1.3	x	Construction at Top of Hoistway	minor			
8.7.2.1.4	x	Construction at Bottom of Hoistway	minor			
8.7.2.1.5		Control of Smoke and Hot Gases	minor	minor		
8.7.2.2.1	x	Pits	major	major		
8.7.2.2.1		Pit Drains (requires engineer letter for conformance to 2.2.2.5)	minor	minor		
8.7.2.2.1		Pit Guards	minor	minor		
8.7.2.2.1	x	Pit Access (including ladders and access doors)		minor		
8.7.2.2.1		Pit Illumination		minor		
8.7.2.2.1		Pit Stop Switches		minor		
8.7.2.2.1	x	Pit Depth	minor			
8.7.2.2.1		Access to Underside of Car	minor	minor		
8.7.2.2.2		Addition of Pit Sump		minor		
8.7.2.3		Location and Guarding of Counterweights	minor	minor		
8.7.2.4	x	Vertical Car and Counterweight Clearances and Runbys	minor			
8.7.2.5	x	Horizontal car and counterweight clearances	minor			
8.7.2.7		Machinery and sheave beams, supports and foundations				

Alterations to Electric Elevators

Code Reference	Inspection	Scope of Alteration	Type of Alteration			
			Alteration		Replacement	
			Modification	Addition	Same	Different make/model
8.7.2.7.1	x	Enclosure (new construction)	major			
8.7.2.7.2		Means of access	minor	minor		
8.7.2.7.3		Access and door openings	minor	minor		
8.7.2.7.4		headroom	minor	minor		
8.7.2.7.5		Window and skylights	minor	minor		
8.7.2.7.6		lighting	minor	minor		
8.7.2.7.7		ventilation	minor	minor		
8.7.2.8		Electrical equipment, wiring, pipes and ducts in H/W and machine rooms				
8.7.2.8		Installation of new or altered electrical equipment, wiring, raceways, cables, pipes, ducts. (Includes HVAC and monitoring/video equipment)	minor	minor		
8.7.2.9	x	Machinery and sheave beams, supports and foundations	major	major		
8.7.2.10		Entrance and hoistway openings				
8.7.2.10.1(a)	x	General requirements (new entrances)	major	major		
8.7.2.10.1 (b)	x	New entrances with existing entrances	major	major		
8.7.2.10.1(c)	x	Alteration H/W entrance	major	major		minor
8.7.2.10.1 (d)	x	Emergency doors	minor	major		minor
8.7.2.10.1 (e)	x	Access openings for cleaning	major	major		minor
8.7.2.10.2	x	Horizontal slide-type entrance	major	major		minor
8.7.2.10.3	x	Vertical slide-type entrance	major	major		minor
8.7.2.10.4	x	Swing-type entrances	major	major		minor

Alterations to Electric Elevators

Code Reference	Inspection	Scope of Alteration	Type of Alteration			
			Alteration		Replacement	
			Modification	Addition	Same	Different make/model
8.7.2.11		Hoistway door locking devices, access switches, and parking devices				
8.7.2.11.1	x	Interlocks	minor	major		minor
8.7.2.11.2	x	Mechanical lock and contacts	minor	major		Minor
8.7.2.11.3		Parking devices	minor	minor		minor
8.7.2.11.4		Access switches and unlocking devices				
8.7.2.11.4 (a)		Unlocking devices	minor	minor		
8.7.2.11.4 (b)	x	Access switches		minor		
8.7.2.11.5		Restricted opening of hoistway doors or car doors of passenger elevators (restrictors)	minor	minor		minor
8.7.2.12	x	Power operation of hoistway doors	minor	minor		minor
8.7.2.12	x	Replacement of door operator	minor			minor
8.7.2.13	x	Door reopening device (requires inspection when alteration includes alteration to door operator)	minor	major		minor
8.7.2.14		Car enclosures, car doors and gates and car illumination				
8.7.2.14.1	x	New car enclosure	major			
8.7.2.14.2		Alteration to existing car enclosure (see B-L4 110803-4)	minor	minor		
8.7.2.14.2(b)		Top emergency exit	minor	minor		minor
8.7.2.14.2(c)		Installation of glass		minor		
8.7.2.14.2(d)		Equipment added to car		minor		
8.7.2.14.2.(h)	x	Addition of partitions to car enclosure	major	major		
8.7.2.14.2(i)	x	Addition of car door or gate to existing elevator car		major		

Alterations to Electric Elevators

Code Reference	Inspection	Scope of Alteration	Type of Alteration			
			Alteration		Replacement	
			Modification	Addition	Same	Different make/model
8.7.2.14.4		Other car enclosure alterations not specified in 8.7.2.14.2		minor		
8.7.2.14.5.1		Addition of car top railing		minor		
8.7.2.14.5.2	x	Addition of car top railing		major		
8.7.2.15.1	x	Car frames and platforms	major	major		
8.7.2.15.2		Increase or decrease in deadweight of car <5%	minor	minor		
8.7.2.15.2	x	Increase or decrease the sum of deadweight and rated load by 5%	major			
8.7.2.16		Capacity, loading, and classification				
8.7.2.16.1	x	Change in type of service	major			
8.7.2.16.2	x	Change in class of loading	major			
8.7.2.16.3	x	Carrying of passengers on freight elevators	major			
8.7.2.16.4	x	Increase in rated load	major			
8.7.2.17		Change in rise or rated speed				
8.7.2.17.1	x	Increase or decrease in rise	major			
8.7.2.17.2	x	Increase in rated speed	major			
8.7.2.17.2 (a)	x	Increase in rated speed of winding drum as specified in 8.7.2.17.2(c)	major			
8.7.2.17.2 (b)	x	Increase in rated speed	major			
8.7.2.17.2.(c)		Increase in speed not exceeding 10% and .20 m/s as specified in 8.7.2.17.2(c)	minor			
8.7.2.17.3	x	Decrease in rated speed	major			
8.7.2.18		Car and counterweight safeties				

Alterations to Electric Elevators

Code Reference	Inspection	Scope of Alteration	Type of Alteration			
			Alteration		Replacement	
			Modification	Addition	Same	Different make/model
8.7.2.18.1	x	New car safeties		major		major
8.7.2.18.2	x	New counterweight safeties		major		major
8.7.2.18.3	x	Existing car safeties	major			major
8.7.2.18.4	x	Existing counterweight safeties	major			major
8.7.2.19		Speed governors and governor ropes				
8.7.2.19	x	New or altered speed governor	major	major		major
8.7.2.19		Governor rope (different material or construction)	minor			minor
8.7.2.20	x	Ascending car overspeed and unintended car movement protection	major	major		major
8.7.2.21		Suspension ropes and their connections				
8.7.2.21.1	x	Change in suspension members	major	major		
8.7.2.21.2		Addition of suspension member equalizers	minor	minor		
8.7.2.21.3		Addition of auxiliary rope suspension member-fastening devices		minor		
8.7.2.21.4	x	Suspension means monitoring and protection	minor	minor		
8.7.2.22	x	Counterweights	major	major		
8.7.2.23	x	Car and counterweight buffers and bumpers	major			major
8.7.2.24	x	Guide rails, supports and fastenings	major	major		
		(Alteration or increase of stress >5%)				
8.7.2.25		Driving machines and sheaves				
8.7.2.25.1(a)	x	Alterations to driving machines and sheaves (part of an alteration)	major	major	major	major

Alterations to Electric Elevators

Code Reference	Inspection	Scope of Alteration	Type of Alteration			
			Alteration		Replacement	
			Modification	Addition	Same	Different make/model
8.7.2.25.1 (b)	x	Alteration to driving machines and sheaves (components)	major	major		minor
8.7.2.25.1(c)		Alteration to driving machines and sheaves (change in driving machine sheave)			minor	minor
8.7.2.25.2	x	Change in location of driving machine	major			
8.7.2.26		Terminal stopping devices	minor	minor		
8.7.2.27		Operating devices and control equipment				
8.7.2.27.1	x	Inspection operation	minor	minor		minor
8.7.2.27.1	x	Inspection operation with open door circuits	minor	minor		
8.7.2.27.2		Car leveling or truck zoning device	minor	minor		
8.7.2.27.3	x	Change in power supply	major			
8.7.2.27.4	x	Controllers	major		major	major
8.7.2.27.4(d)	x	Door controller (installation or alteration)	minor			minor
8.7.2.27.4(e)	x	Controller for emergency or standby power or FEO	minor	major		minor
8.7.2.27.5	x	Change in type of motion control (see directive D-L4-100311 2)	major			
8.7.2.27.6	x	Change in type of operational control (see directive D-L4-100311 2)	major			
8.7.2.27.7		In-car stop switch	minor			
8.7.2.27.8	x	Electrical protective devices	major	major		minor
8.7.2.27.9		Door monitoring system	minor	minor		
8.7.2.28(a)	x	Emergency operation and signaling devices (emergency signaling devices)	minor	minor		

Alterations to Electric Elevators

Code Reference	Inspection	Scope of Alteration	Type of Alteration			
			Alteration		Replacement	
			Modification	Addition	Same	Different make/model
8.7.2.28(b)	x	Emergency operation and signaling devices (emergency or standby power)	minor	minor		minor
8.7.2.28(c)	x	Emergency operation and signaling devices (FEO)	minor	minor		
8.7.2.28(d)	x	Emergency operation and signaling devices (addition of elevator to group)	minor	minor		

Alterations to Hydraulic Elevators

Code Reference	Inspection	Scope of Alteration	Type of Alteration			
			Alteration		Replacement	
			Modification	Addition	Same	Different make/model
8.7.3.1	x	Hoistway enclosure	major			
See 8.7.2.1						
8.7.3.2	x	pits	major			
See 8.7.2.2						
8.7.2.2		Pit drains (requires engineer letter confirming compliance to 2.2.2.5)	minor	minor		
8.7.2.2		Pit guards		minor		
8.7.2.2	x	Pit access (including ladder or access door)	minor	minor		
8.7.2.2		Pit illumination	minor	minor		
8.7.2.2		Pit stop switches	minor	minor		
8.7.2.2		Pit depth	minor			

Alterations to Hydraulic Elevators						
Code Reference	Inspection	Scope of Alteration	Type of Alteration			
			Alteration		Replacement	
			Modification	Addition	Same	Different make/model
8.7.2.2		Access to underside of car	minor	minor		
8.7.3.2.2		Addition of pit sump pump		minor		
8.7.3.3		Location and guarding of counterweights	minor	minor		
8.7.3.4	x	Vertical car and counterweight clearances and runbys	minor			
8.7.3.5	x	Horizontal car and counterweight clearances	minor			
8.7.3.6	x	Protection of spaces below hoistway	minor			
8.7.3.7		Machine rooms, machinery spaces, control spaces and control rooms				
See 8.7.2.7						
8.7.2.7.1	x	enclosure	major			
8.7.2.7.2		Means of access	minor	minor		
8.7.2.7.3		Access and door openings	minor	minor		
8.7.2.7.4		headroom	minor	minor		
8.7.2.7.5		Window and skylights	minor	minor		
8.7.2.7.6		lighting	minor	minor		
8.7.2.7.7		ventilation	minor	minor		
8.7.3.8		Electrical equipment, wiring, pipes and ducts in H/W and machine rooms				
8.7.3.8		Installation of new or altered electrical equipment, wiring, raceways, cables, pipes, ducts. (Includes HVAC and monitoring/video equipment)	minor	minor		
8.7.3.9	x	Machinery and sheave beams, supports and foundations	major	major		

Alterations to Hydraulic Elevators						
Code Reference	Inspection	Scope of Alteration	Type of Alteration			
			Alteration	Replacement	Different	
			Modification	Addition	Same	make/model
8.7.3.10		Hoistway and entrance openings				
See 8.7.2.10						
8.7.2.10.1(a)	x	General requirements (new)	major	major		
8.7.2.10.1 (b)	x	New entrances with existing entrances	major			major
8.7.2.10.1(c)	x	Alteration H/W entrance	major			
8.7.2.10.1 (d)	x	Emergency doors	major	major		minor
8.7.2.10.1 (e)	x	Access openings	major	major		
8.7.2.10.2	x	Horizontal slide-type entrance	major			
8.7.2.10.3	x	Vertical slide-type entrance	major	major		
8.7.2.10.4	x	Swing-type entrances	major	major		
8.7.3.11		Hoistway door locking devices				
See 8.7.2.11						
8.7.2.11.1	x	Interlocks	minor	major		minor
8.7.2.11.2	x	Mechanical lock and contacts	minor	major		minor
8.7.2.11.3		Parking devices	minor	minor		minor
8.7.2.11.4		Access switches and unlocking devices				
8.7.2.11.4 (a)		Unlocking devices	minor	minor		
8.7.2.11.4 (b)	x	Access switches	minor	minor		
8.7.2.11.5		Restricted opening of hoistway doors or car doors of passenger elevators (restrictors)	minor	minor		

Alterations to Hydraulic Elevators						
Code Reference	Inspection	Scope of Alteration	Type of Alteration			
			Alteration		Replacement	
			Modification	Addition	Same	Different make/model
8.7.3.12	x	Power operation of hoistway doors	minor	minor		
8.7.3.12	x	Replacement of door operator	minor	minor		minor
8.7.3.13		Car enclosures and door reopening device				
See 8.2.7.14						
8.7.2.14.1	x	New car enclosure	major	major		
8.7.2.14.2		Alteration to existing car enclosure (see B-L4 110803-4)	minor	minor		
8.7.2.14.2.(h)	x	Addition of partitions to car enclosure	major	major		
8.7.3.13.2 (see 8.7.2.13)	x	Door reopening device (altered, added or replaced) requires inspection only when replaced with door operator	minor	minor		minor
8.7.3.14	x	Car frames and platforms	major	major		
8.7.3.15		Safeties				
8.7.3.15.1	x	Installation of car safeties		major		minor
8.7.3.15.2	x	Installation of counterweight safeties		major		minor
8.7.3.15.3	x	Alteration of existing car or counterweight safeties	major			
8.7.3.16		Governor and governor ropes				
See 8.7.2.19						
8.7.2.19	x	New or altered speed governor	major	major		major
8.7.2.19	x	Governor rope (different material or construction)	minor			minor
8.7.3.17	x	Change in type of service	major			
8.7.3.18	x	Change in class of loading	major			

Alterations to Hydraulic Elevators						
Code Reference	Inspection	Scope of Alteration	Type of Alteration			
			Alteration		Replacement	
			Modification	Addition	Same	Different make/model
8.7.3.19	x	Carrying of passengers of freight elevators	major			
8.7.3.20	x	Increase in rated load	major			
8.7.3.21	x	Increase in deadweight of car	major			
8.7.3.22		Change in rise or rated speed				
8.7.3.22.1	x	Increase or decrease in rise	major			
8.7.3.22.2	x	Increase in rated speed	major			
8.7.3.22.3	x	Decrease in rated speed	major			
8.7.3.23		Hydraulic equipment				
8.7.3.23.1	x	Hydraulic jack	major	major	major	major
8.7.3.23.2	x	plungers	major	major	minor	major
8.7.3.23.3	x	Cylinders	major	major	minor	major
8.7.3.23.4	x	Increase in working pressure > 5%	major			
8.7.3.23.5	x	Change in location of hydraulic jack	major			
8.7.3.23.6	x	Relocation of hydraulic machine (power unit) within existing machine room.	minor			
8.7.3.23.6	x	Relocation of hydraulic machine (power unit) to new machine room	major			
8.7.3.23.7	x	Plunger gripper (addition to or alteration of)	major	major	minor	minor
8.7.3.24		Valves, pressure piping and fittings				
8.7.3.24	x	Control valves (altered or replaced)	minor			minor
8.7.3.24	x	Overspeed valve (addition of)		minor		minor
8.7.3.24		Relief valves (alteration or replacement)		minor		minor
8.7.3.24		Check valve (alteration or replacement)		minor		minor

Alterations to Hydraulic Elevators						
Code Reference	Inspection	Scope of Alteration	Type of Alteration			
			Alteration		Replacement	
			Modification	Addition	Same	Different make/model
8.7.3.24		Pressure piping or fittings (alteration or replacement)	minor	minor		
8.7.3.25		Suspension ropes and their connections				
8.7.3.25.1	x	Change in the number of ropes or diameter of ropes	major	major		
8.7.3.25.1		Change in material or grade	minor			
8.7.3.25.2		Addition of rope equalizers	minor	minor		
8.7.3.26	x	Counterweights (addition to or alteration)	major	major		minor
See 8.7.2.22						
8.7.3.27	x	Car buffers and bumpers	major	major		minor
8.7.3.28	x	Guide rails, supports and fastenings	major			
		Alteration or increase of stress > 5%				
8.7.3.29		Tanks	minor	minor	minor	minor
See 8.6.3.10.4						
8.7.3.30		Terminal stopping devices	minor	minor		
8.7.3.31		Operating devices and control equipment				
8.7.3.31.1	x	Top of car operating devices	minor	minor		minor
8.7.3.31.2		Car levelling or truck zoning device	minor	minor		
8.7.3.31.3		Anticreep levelling device	minor	minor	minor	minor
See 8.6.10.5						
8.7.3.31.4	x	Change in power supply	major			

Alterations to Hydraulic Elevators						
Code Reference	Inspection	Scope of Alteration	Type of Alteration			
			Alteration		Replacement	
			Modification	Addition	Same	Different make/model
8.7.3.31.4	x	Addition of soft start		minor		minor
8.7.3.31.5	x	Change in controller	major		major	major
8.7.3.31.5.(d)	x	Door controller	minor			minor
8.7.3.31.5(e)	x	Controller for emergency or standby power or fire fighters emergency operation	minor	major		minor
8.7.3.31.6	x	Change in type of motion control (see directive D-L4-100311 2)	major			
8.7.3.31.7	x	Change in type of operation control (see directive D-L4-100311 2)	major			
8.7.3.31.8(a)		Emergency operation and signaling devices (emergency signaling devices)	minor	minor		
8.7.3.31.8(b)	x	Emergency operation and signaling devices (emergency or standby power)	minor	minor		
8.7.3.31.8(c)	x	Emergency operation and signaling devices (FEO)	minor	minor		
8.7.3.31.9	x	Auxiliary power lowering operation		minor		
8.7.3.31.10		In-car stop switch	minor			
8.7.3.31.11	x	Electrical protective devices	major	major		major
8.7.3.31.12		Change of hydraulic pump motor starter	minor			minor

Alterations to Escalators

Code Reference	Inspection	Scope of Alteration	Type of Alteration			
			Alteration		Replacement	
			Modification	Addition	Same	Different make/model
8.7.6.1.1		General Requirements (replacement of component parts is not considered an alteration)				
8.7.6.1.2	x	Relocation of escalator (within the same premises)	major			
8.7.6.1.3		Protection of floor openings	minor			
8.7.6.1.4		Protection of trusses and machinery spaces against fire	minor			
8.7.6.1.5		Construction requirements				
8.7.6.1.5(a)	x	Construction requirements: Angle of inclination	major			
8.7.6.1.5(b)	x	Construction requirements: Geometry	major			
8.7.6.1.5(c)	x	Construction requirements: Balustrades	major			
8.7.6.1.5(d)	x	Construction requirements: Skirt deflector devices	minor	minor		
8.7.6.1.6	x	Handrails	minor			minor
8.7.6.1.7	x	Step system	major			major
8.7.6.1.8		combplates	minor			
8.7.6.1.9	x	Trusses and girders	major	major		

Alterations to Escalators						
Code Reference	Inspection	Scope of Alteration	Type of Alteration			
			Alteration		Replacement	
			Modification	Addition	Same	Different make/model
8.7.6.1.9	x	Trusses and girders: New escalator into existing trusses	major			
8.7.6.1.10	x	Step wheel tracks	major			major
8.7.6.1.11	x	Rated load and speed	major			
8.7.6.1.12		Driving machine, motor, and brake				
8.7.6.1.12(a)	x	Driving machine	major		major	major
8.7.6.1.12(b)	x	Driving motor	major			major
8.7.6.1.12(c)	x	Machine brake	major	major		major
8.7.6.1.13	x	Operating and safety devices	major	major		minor
8.7.6.1.14		Lighting, access and electrical work	minor	minor		
8.7.6.1.15		Entrance and egress	minor			
8.7.6.1.16	x	controller	major			major
8.7.6.1.17	x	Variable frequency drive motor	minor	major		minor
8.7.6.1.18	x	Addition of escalator speed variation		minor		
Alterations to Moving Walks						
Code Reference	Inspection	Scope of Alteration	Type of Alteration			
			Alteration		Replacement	
			Modification	Addition	Same	Different make/model
8.7.6.2.1		General Requirements (replacement of component parts is not considered an alteration)				
8.7.6.2.2	x	Relocation of moving walk (within the same premises)	major			

Alterations to Moving Walks

Code Reference	Inspection	Scope of Alteration	Type of Alteration			
			Alteration		Replacement	
			Modification	Addition	Same	Different make/model
8.7.6.2.3		Protection of floor openings	minor			
8.7.6.2.4		Protection of trusses and machinery spaces against fire	minor			
8.7.6.2.5		Construction requirements				
8.7.6.2.5(a)	x	Construction requirements: Angle of inclination	major			
8.7.6.2.5(b)	x	Construction requirements: Geometry	major			
8.7.6.2.5(c)	x	Construction requirements: Balustrades	major			
8.7.6.2.6		Handrails	minor			
8.7.6.2.7	x	Treadway system	major			major
8.7.6.2.8		Combplates	minor			minor
8.7.6.2.9	x	Trusses and girders	major	major		
8.7.6.2.9	x	Trusses and girders: New moving walk into existing trusses	major			
8.7.6.2.10	x	Track system	major			major
8.7.6.2.11	x	Rated load and speed	major			
8.7.6.2.12		Driving machine, motor, and brake				
8.7.6.2.12(a)	x	Driving machine	major		major	major
8.7.6.2.12(b)	x	Driving motor	major			major

Alterations to Moving Walks

Code Reference	Inspection	Scope of Alteration	Type of Alteration			
			Alteration		Replacement	
			Modification	Addition	Same	Different make/model
8.7.6.2.12(c)	x	Machine brake	major	major		major
8.7.6.2.13	x	Operating and safety devices	major	major		minor
8.7.6.2.14		Lighting, access and electrical work	minor	minor		
8.7.6.2.15	x	controller	major			major
8.7.6.2.16	x	Variable frequency drive motor	minor	major		minor
8.7.6.2.17	x	Addition of moving walk speed variation		minor		