



Alberta Elevating Devices  
& Amusement Rides  
Safety Association

## Information Bulletin No. IBE16-003 ISSUED 2016

### Subject: Major and Minor Alterations GUIDELINES

#### Introduction:

This information document is issued to all SCOs as a **Guide** as to what constitutes major alteration.

#### Definitions:

##### *ED, PR and AR Permit Regulation:*

**Major Alteration** means an alteration that, in the opinion of a safety codes officer, significantly changes the structural or operational characteristics of the original design, layout drawings, data or any other information submitted in support of an application for a permit for the elevating device, passenger ropeway or fixed amusement ride;

##### *Elevating Devices Codes Regulation AR 192/2015*

8.10.1.1.2 A person who installs or makes a **major alteration** to equipment must perform all of the applicable tests specified by Requirements 8.10.2 to 8.10.5 in the presence of an inspector specified in Requirement 8.10.1.1.1.

8.10.1.1.2.1 A person who alters equipment must perform all of the applicable tests specified by Requirements 8.10.2 to 8.10.5.

##### *ASME A17.1-2013/CSA B44-13*

*Alteration:* any change to equipment, including its parts, components, and/or subsystems, other than maintenance, repair, or replacement.

*Replacement:* the substitution of a device or component and/or subsystems, in its entirety, with a unit that is basically the same as the original for the purpose of ensuring performance in accordance with applicable Code requirements (see CSA B44-07 8.6.12.5 where replacement of specific components constitutes an alteration)

#### Specific Details

##### **Major Alterations: Table A**

A Major Alteration submission/application must include the seal of an Alberta professional engineer approving the design drawings and specifications for a major alteration to an existing elevating device, and the professional engineer must verify the accuracy of the contents of the technical information package.

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### Minor Alterations: Table B

A Minor Alteration means an alteration to an elevating device that is not a "major alteration".

Therefore, all alterations that do not fall under the list of major alterations will be considered a minor alteration. Table B lists the minor alterations that will require inspection.

**Multiple Minor Alterations (single device):** More than one minor alteration undertaken on a single device may constitute a MAJOR alteration. A complete scope of work should be submitted and reviewed by two level 2 SCOs to determine if the project is now considered as MAJOR.

### Type of inspections required:

1. **Acceptance Inspection (A)** is required for all Major Alterations
2. **Special Inspection (SI)** is required for Minor Alterations listed. This inspection may be of a narrow scope limited to only the specific item altered. These items may not require Alberta Professional Engineer endorsement.

### Implementation:

This information bulletin implanted immediately

*Original signed by:*

Dean McKernon

AEDARSA VP of Operations

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<b>ELECTRIC ELEVATORS Table A</b>			
<b>#</b>	<b>MAJOR ALTERATIONS DETAILS</b>	<b>Inspection Type</b>	<b>Code Reference</b>
1	Hoistway enclosure walls (Structural)	S.I.	8.7.2.1.1
2	Location of the C.W.	A	8.7.2.3
3	Vertical clearances	A	8.7.2.4
4	Horizontal clearances	A	8.7.2.5
5	Protection of space below hoistway	A	8.7.2.6
6	Machine beams & foundation	A	8.7.2.9
7	Hoistway entrances & openings	A	8.7.2.10
8	Hoistway door locking devices & access switch	A	8.7.2.11
9	Car enclosure, car doors & gates	S.I.	8.7.2.14
10	Car frame & platform	A	8.7.2.15
11	Capacity, loading, classification	A	8.7.2.16
12	Change in rise & rated speed	A	8.7.2.17
13	Car & CW safeties	A	8.7.2.18
14	Speed governors & governor ropes	A	8.7.2.19
15	Ascending car & unintended movement	A	8.7.2.20
16	Suspension ropes & their connections	A	8.7.2.21
17	Counterweights	S.I.	8.7.2.22
18	Buffers & bumpers	A	8.7.2.23
19	Guide rails, supports & fastenings	A	8.7.2.24
20	Driving machines & sheaves	A	8.7.2.25
21	Operating devices & control equipment	A	8.7.2.27
22	FEO devices	A	8.7.2.28



**HYDRAULIC ELEVATOR Table A**

#	MAJOR ALTERATIONS DETAILS	Type of Inspection Required	Code Reference
23	Hoistway enclosure walls (Structural)	S.I.	8.7.3.1.1
24	Location of the C.W.	A	8.7.3.3
25	Vertical clearances	A	8.7.3.4
26	Horizontal clearances	A	8.7.3.5
27	Protection of space below hoistway	A	8.7.3.6
28	Machine beams & foundation	A	8.7.3.9
39	Hoistway entrances & openings	A	8.7.3.10
30	Hoistway door locking devices & access switches	A	8.7.3.11
31	Car enclosure, car doors & gates	S.I.	8.7.3.14
32	Safeties (car/CW gripper)	A	8.7.3.15
33	Speed governors & governor ropes	A	8.7.3.16
34	Change in type of service	A	8.7.3.17
35	Change in class of loading	A	8.7.3.18
36	Carrying of passenger	A	8.7.3.19
37	Increase in rated load	A	8.7.3.20
38	Increase in deadweight of the car	A	8.7.3.21
39	Change in rise or rated speed	A	8.7.3.22
40	Hydraulic cylinder	A	8.7.3.23
41	Hydraulic plungers	A	8.7.3.23.2
42	Plunger Gripper	A	8.7.3.23.7
43	Suspension ropes & their connections	A	8.7.3.25
44	Counterweight alteration	A	8.7.3.26
45	Buffers & bumpers	A	8.7.3.27
46	Guide rails, supports & fastenings	A	8.7.3.28
47	Tanks	A	8.7.3.29
48	Operating devices & control equipment	A	8.7.3.31



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<b>ESCALATORS AND MOVING WALKS Table A</b>			
<b>#</b>	<b>MAJOR ALTERATIONS DETAILS</b>	<b>Type of Inspection Required</b>	<b>Code Reference</b>
51	Relocation of Escalators	A	8.7.6.1.2
52	Relocation of Moving walks	A	8.7.6.2.2
53	Construction Requirements for Escalators	A	8.7.6.1.5
54	Construction Requirements for Moving Walks	A	8.7.6.2.5
55	Handrails of an Escalator	A	8.7.6.1.6
56	Handrails of a Moving Walk	A	8.7.6.2.6
57	Escalators Step System	A	8.7.6.1.7
58	Moving Walk Treadway System	A	8.7.6.2.7
59	Escalators Combplate	A	8.7.6.1.8
60	Moving Walk Combplate	A	8.7.6.2.8
61	Escalators Trusses and Girders	A	8.7.6.1.9
62	Moving Walk Trusses and Girders	A	8.7.6.2.9
63	Escalators Step Wheel Tracks	A	8.7.6.1.10
64	Moving Walk Tracks	A	8.7.6.2.10
65	Escalators Rated Load and Speed	A	8.7.6.1.11
66	Moving Walk Rated Load and Speed	A	8.7.6.2.11
67	Escalators Driving Machine, Motor, and Brake	A	8.7.6.1.12
68	Moving Walk Driving Machine, Motor, and Brake	A	8.7.6.2.12
69	Escalators Operating and Safety Devices	A	8.7.6.1.13
70	Moving Walk Operating and Safety Devices	A	8.7.6.2.13
71	Escalators Lighting, Access, and Electrical Work	A	8.7.6.1.14
72	Moving Walks Lighting, Access, and Electrical Work	A	8.7.6.2.14
73	Escalators Controller	A	8.7.6.1.16
74	Moving Walks Controller	A	8.7.6.2.15

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**ELECTRIC AND HYDRAULIC ELEVATOR / ESCALATORS AND MOVING WALKS**

**Table B**

<b>#</b>	<b>MINOR ALTERATIONS DETAILS</b>	<b>Type of Inspection Required</b>	<b>Code Reference</b>
1	Machine room & machine space alteration	S.I.	8.7.2.7
2	Electrical equipment, wiring, pipes in Hwy & M/R	S.I.	8.7.2.8
3	Alteration of Valves	Hydraulic Elevator Tests Declaration	8.7.3.24
4	Restricted Access on Car Calls	Restricted Access and FEO Phase II Operation Tests Declaration	
5	Protection of floor opening of an Escalator	S.I.	8.7.6.1.3
6	Protection of floor opening of a Moving Walks	S.I.	8.7.6.2.3
7	Protection of Trusses and Machinery Spaces Against Fire on Escalators	S.I.	8.7.6.1.4
8	Protection of Trusses and Machinery Spaces Against Fire on Moving Walks	S.I.	8.7.6.2.4
9	Entrance and Egress on Escalators	S.I.	8.7.6.1.15
10	Driving Machine and Sheaves (Guarding of Equipment)	S.I.	8.7.2.25.1(a)
11	Internal Cab Modernization	S.I.	See Information Bulletin no: IBE20-001