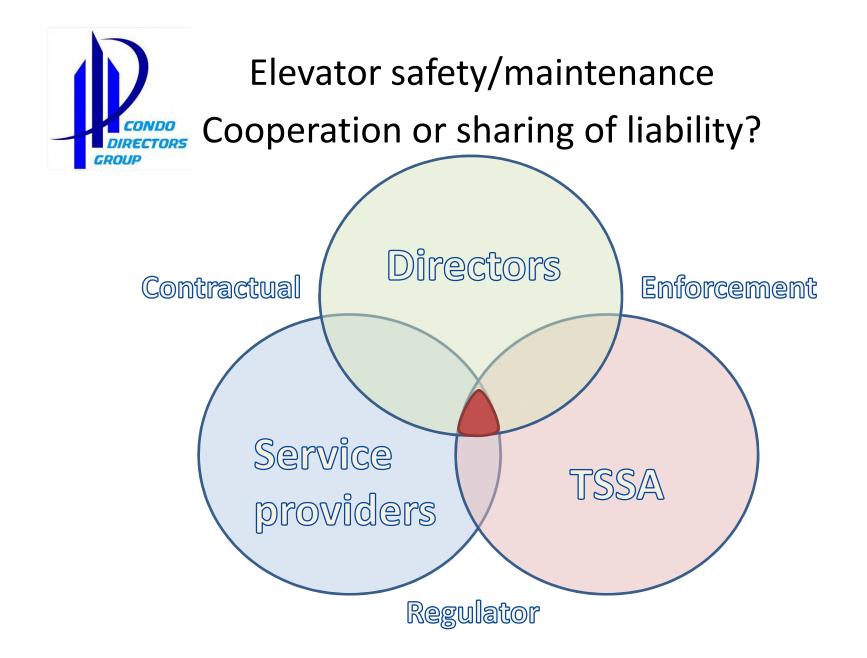


Welcome Bienvenue



Meeting Agenda

- Elevator Technician: Job description
- Director's legal responsibility
- Elevator Issues Rooney, Irving & Associates Ltd.
- Elevating Device Regulation & Owner Responsibility TSSA
- Moving Forward
- Web Demo







Condo Directors' liability under TSSA

- Directors have a duty to take all reasonable care to prevent the corporation from committing an offence under the *TSSA* (s. 37)
- A Director who fails to do so is guilty of an offence and liable to a fine of no more than \$50,000 (or less than 2 years imprisonment);
- Limitation period : 2 years from the date of discovery of the offence



Owner's responsibility

• Obligations imposed on the owner of an elevating device (the corporation owns the device):

- Ensuring the device is licenced and complies with Act/Regs
- Ensuring it is maintained by registered contractors
- Ensure maintenance plan includes what is provided under regulation;
- Ensure licence is posted in a conspicuous place
- Maintaining the log book up-to-date



Owner's responsibility (cont'd)

- Notifying the Director forthwith by phone in case of serious injury or death;
- Ensure access to device, to machinery, to keys, to list of persons to call in case of failure
- Ensuring that the phone # of the contractor currently maintaining the machine and the expiry date of the maintenance contract is easily accessible
- Ensure that the location of the various keys listed under the Regulation is posted inside the fire hose cabinet closest to entrance of the building

Reg. 209/01 (under the TSSA)



Corporation's responsibility

Under the Occupier's Liability Act:

The occupier (the corporation) must take such care as is reasonable in the circumstances to ensure that persons entering the premises are reasonably safe while on the premises

Elevator Issues

A presentation for the Condo Directors Group March 2015



Rooney, Irving & Associates Ltd. Elevator and Escalator Consulting

www.rooneyirving.ca

Tel: 613 726 2049

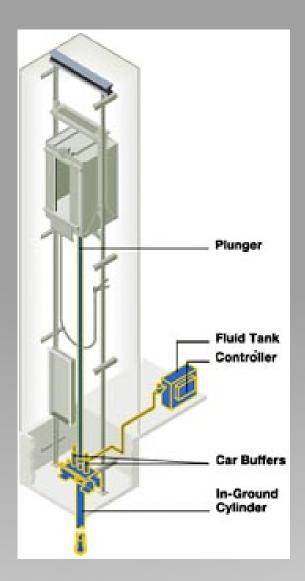
New Equipment Elevator Types Two Main Sub- Categories Hydraulic Traction

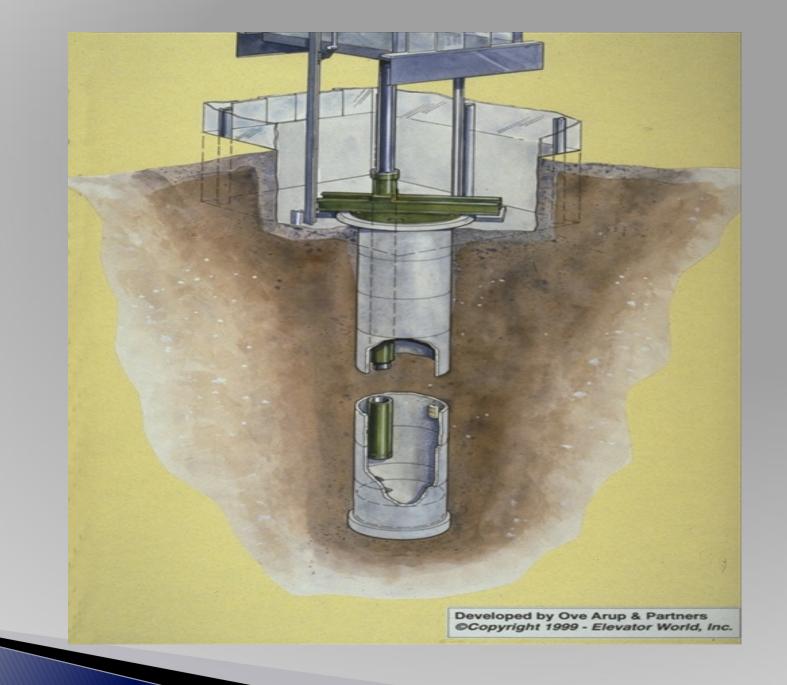




Hydraulic Elevators In ground

- Hydraulic cylinder is installed in the ground in previously drilled caisson
- Typically up to 60ft of travel.
- Inexpensive, easy installation
- Other systems roped, telescopic and inverted.

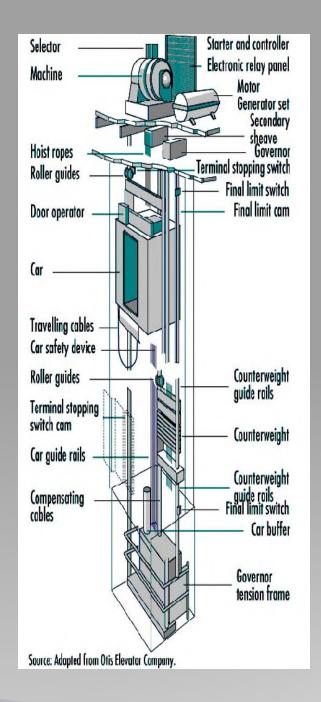


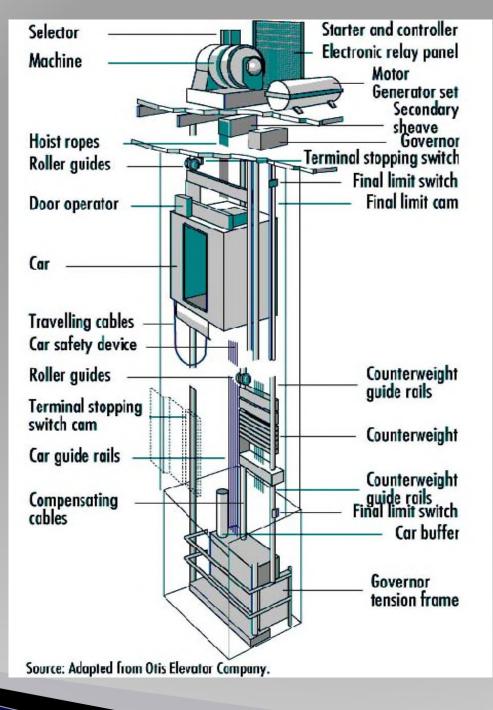


Traction Elevators

- Elevator is hoisted by traditional ropes
- Lift machine is located in a full size mechanical penthouse above the hoistway

Traction

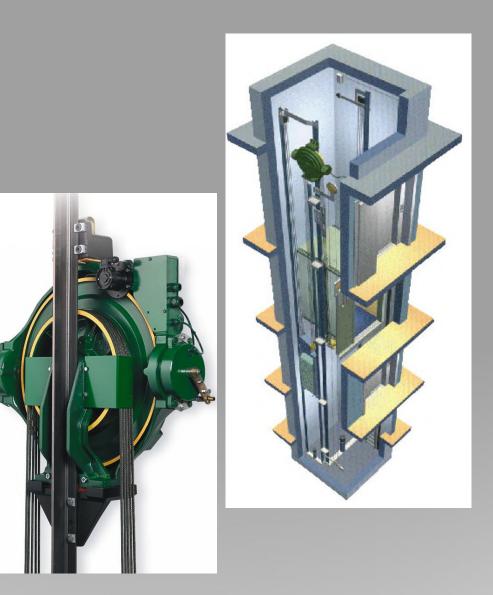




MRL

• KONE DISC

- Machine sits at side of hoistway for most applications
- Uses traditional ropes
- Car is under slung
- Controller can be placed in a "closet"





Non – Traditional Traction

- MRL
 - Machine Room Less Elevator system
 - Otis = GEN2
 - KONE = ECO Series
 - ThyssenKrupp= Synergy
 - Schindler = 400 A
 - MCE = 4000MRL







Lifts B355 vs B44

- Used only for handicap accessibility purposes
- Very Slow Speed 7 fpm
- Constant pressure
- Capacity of 341kg
- Very inexpensive



LULA Lift – B44

- LULA Lifts
 - Limited use, limited application
 - Small lifts capacity around 634kg
 - Shallow pits /Less Overhead
 - Automatic Operation
 - Slow operation speed usually around 30fpm
 - Maximum rise of 25' (not Ontario)



▶ ED 261–13 r 1

 Importance of complete paperwork for any cab modifications

• Four levels:

(1) Alteration leads to decrease of weight less than 5% of original car weight and capacity or increase less than 255 lbs – weigh car and post new data

(2) If increase less than 25 lbs don't need to weigh (!)

• Four levels:

(3) Alteration leads to increase of weight by more than 255 lbs., but less than 5% of original car weight and capacity.

<u>Re engineer</u>:

 Machines, Car/CW frames, buffers, traction, overbalance, ropes, WP, safeties.

- Issue is original data.

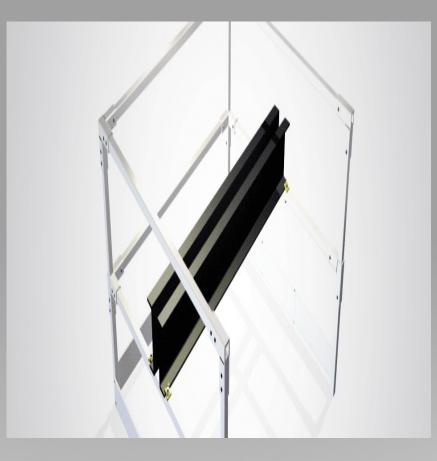
Four levels:

(4) Alteration leads to increase or decrease of weight by more than 5% of original car weight and capacity.

Re engineer:

Car Top Railing

- TSSA has mandated OHSA compliant guardrails on the top of all elevators in Directors Ruling – 245/10.
- Effective May 1 2014
- ▶ 12" gap

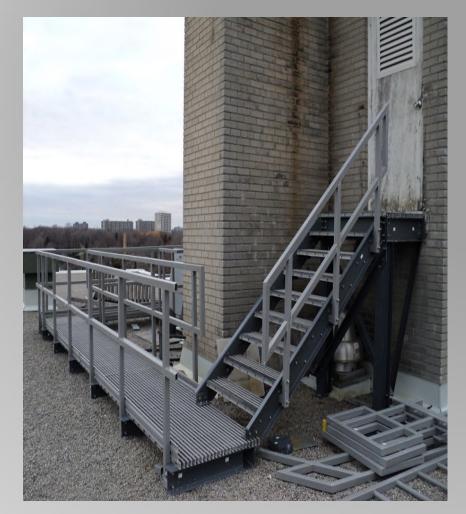


Four levels:

(4) Alteration leads to increase or decrease of weight by more than 5% of original car weight and capacity.

<u>Re engineer</u>: – JUST ABOUT EVERYTHING!

Roof Top Machine Room Access



Similar

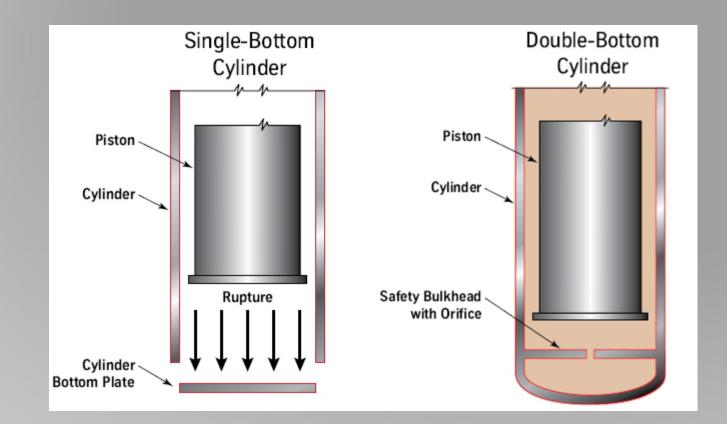
Retroactive

TSSA enforcement can occur anytime

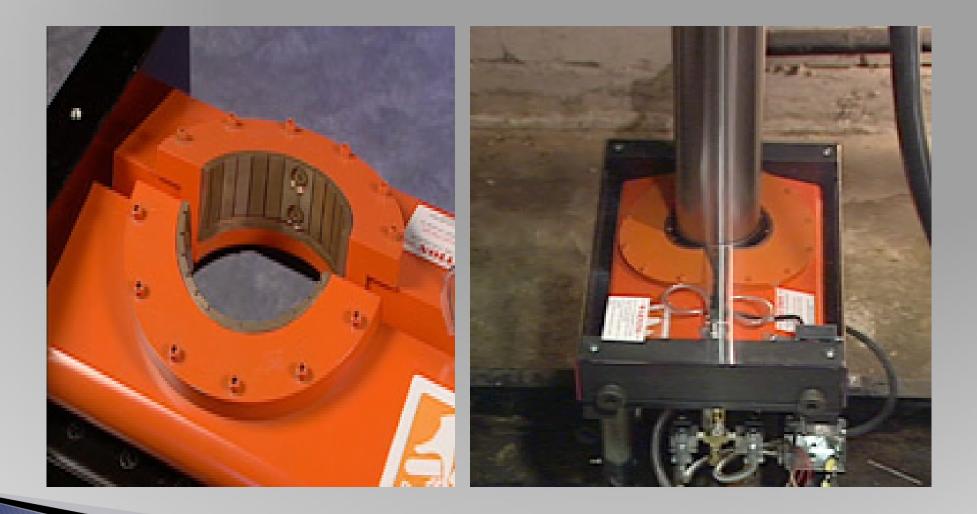


Single Bulkhead Cylinders TSSA Info Bulletin 243/10 Issued March 20, 2012

Cylinder cross section

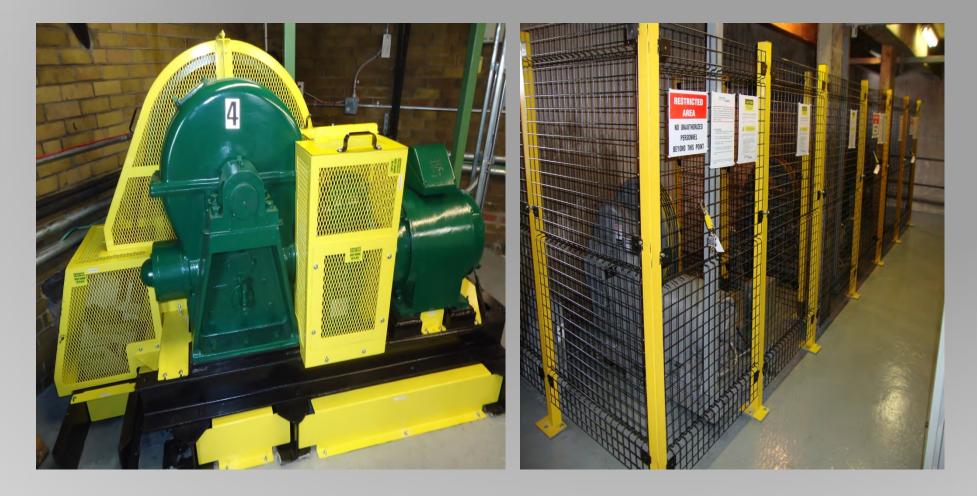


Life jacket



Machine Room Guarding MOL / OHSA Requirements O'reg 851, Sections 24, 25, 75 & 76

Machine Guarding



Firefighters Emergency Operation "FEO" – DFFA (Dedicated Function Fire Alarm) TSSA Code Adoption Document CAD 261/13r1 Issued September 15, 2013

- New Requirements
- Need for detectors at each floor
- Requirement precipitating need for complete new fire panel

MCP Log Book



Canadian Elevator Contractors Association (CECA) Registered Maintenance Control Program Log Electric, Hydraulic, Dumbwaiter Devices

Maintenance Task	Device Type	Frequency Mandated	Frequency Recommended	J	F	м	A	м	J	J	A	s	0	N	D
Note: Mechanics are requ	ired to i	nitial tasks	s once comple	ted											
Device Type(s): Electric (I	E), Hydr	aulic (H), D	Dumbwaiter (D)											
CAR	Device Type	Frequency Mandated	Frequency Recommended	J	F	м	A	м	J	J	A	S	0	N	D
8.6.4.9: Cleaning of Top of Cars.	E, H, D		6 months												
8.6.4.13.1 (a): Hoistway door interlocks or mechanical locks.	E, H, D	6 months													
8.6.4.13.1 (b): Car door electric contacts or car door interlocks (where required).	E, H, D	6 months	_												
8.6.4.13.1 (c): Door reopening devices.	E, H	6 months													
8.6.4.13.1 (d): Vision panels and grilles (where required).	E, H, D	6 months													
8.6.4.13.1 (e): Hoistway door unlocking devices and escutcheons.	E, H, D	6 months													
8.6.4.13.1 (f): Hangers, tracks, door rollers, up- thrusts, and door safety retainers (where required).	E, H, D	6 months													
8.6.4.13.1 (g): Astragals and resilient members, door space guards, and sign guards (where required).	E, H, D	6 months													
8.6.4.13.1 (h): Sills and bottom guides, fastenings, condition and engagement.	E, H	6 months													
8.6.4.13.1 (i): Clutches, engaging vanes, retiring cams, and engaging rollers.	E, H, D	6 months													
8.6.4.13.1 (j): Interconnecting means.	E, H, D	6 months													
8.6.4.13.1 (k): Door closers (where required).	E, H, D	6 months													
8.6.4.13.1 (I): Door restrictors (where required).	E, H	6 months													

The MCP Log Book Template/ Model has been developed by the Canadian Elevator Contractors Association (CECA) and the MCP Task Group, the document is available at www.ceca-acea.org.

COST IMPLICATIONS

- 5 YEAR FULL LOAD, FULL SPEED
- 1 YEAR - MINIMAL
- SIGN WAIVER?

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erechtic contexts or car door interlocks (where required)	P	8 10/24										
8.8.4.18.1 pcr Deer	E.H	t nurths		Г			T	Г	Π	Т	Т	Т
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Maintenance Contracts Contractor Paper vs Custom

- Evergreen
- Frequency
- Obsolescence
- Cancellation
- Performance of elevators
- Reliability and response time

- Overtime coverage
- Escalation
- Cancellation

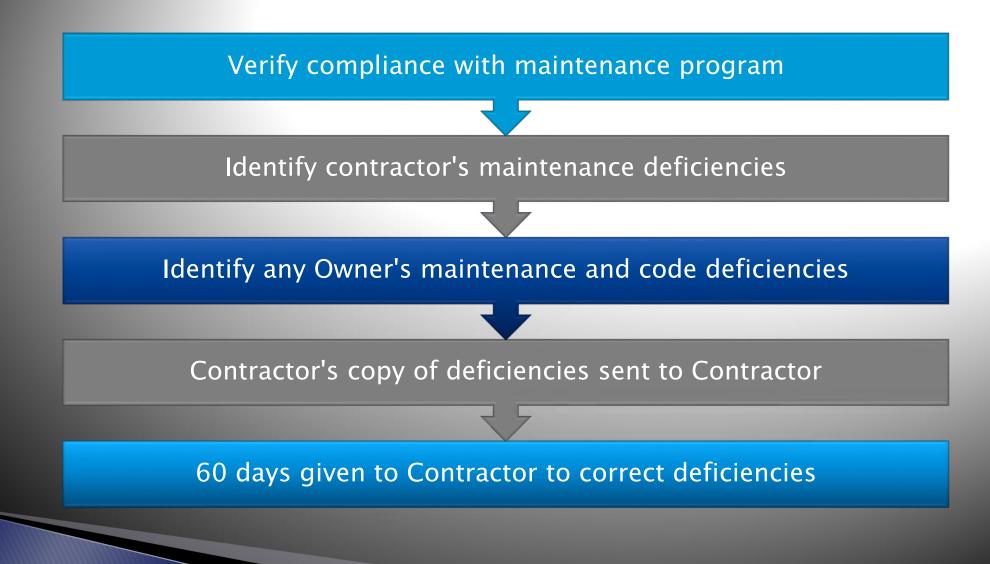
Custom Maintenance Contract

- Full Maintenance program
 - Covers all parts and labour
- > 24 hour call back / 7 days a week
- Annual testing of smoke detectors in machine room, hoistway and pit
- > Obsolescence
 - If a replacement part can be bought or made it is covered.
- Review Contractor's invoices relating to work that might not be covered under current contract.

Property Manager's Responsibilities

- Elevator operating licences (TSSA)
 - Posting in cab or machine room.
- Machine room doors Self locking self closing
- Machine room keys available on site
- Clean sills
- Water in pit and rusty pit equipment.
- In-cab telephones.
- Verify switches
- Testing of smoke and heat detectors FEO

Consultant Elevator Reviews



Thank You



www.rooneyirving.ca



TSSA Elevating Device Regulation & Owner Responsibility

Presented by Dean McLellan & Ted Gervais



Website Demo





- Next meeting: ??????
- Thanks for attending!