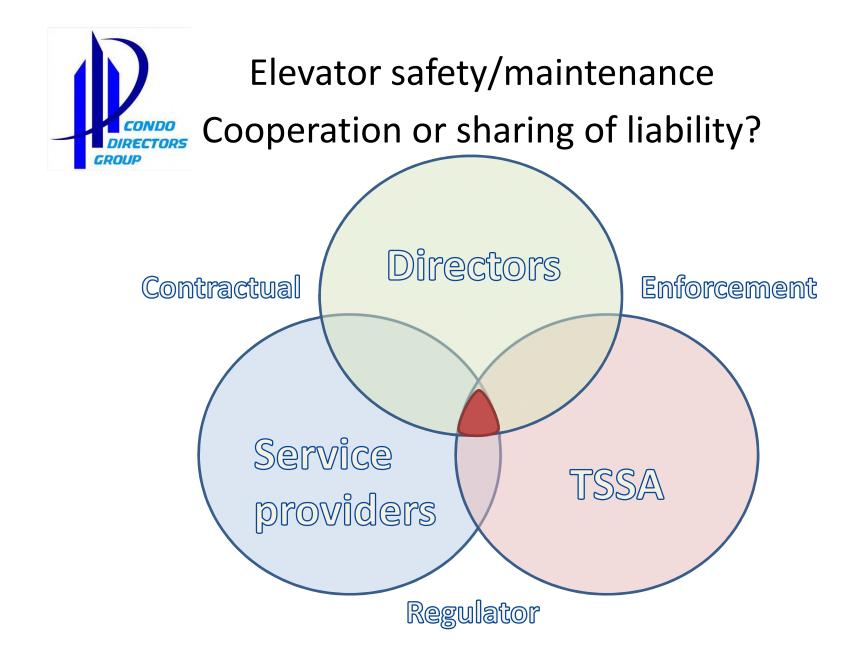


# Welcome Bienvenue



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

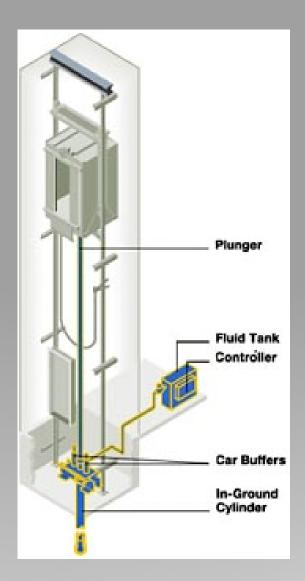
#### New Equipment Elevator Types Two Main Sub- Categories Hydraulic Traction

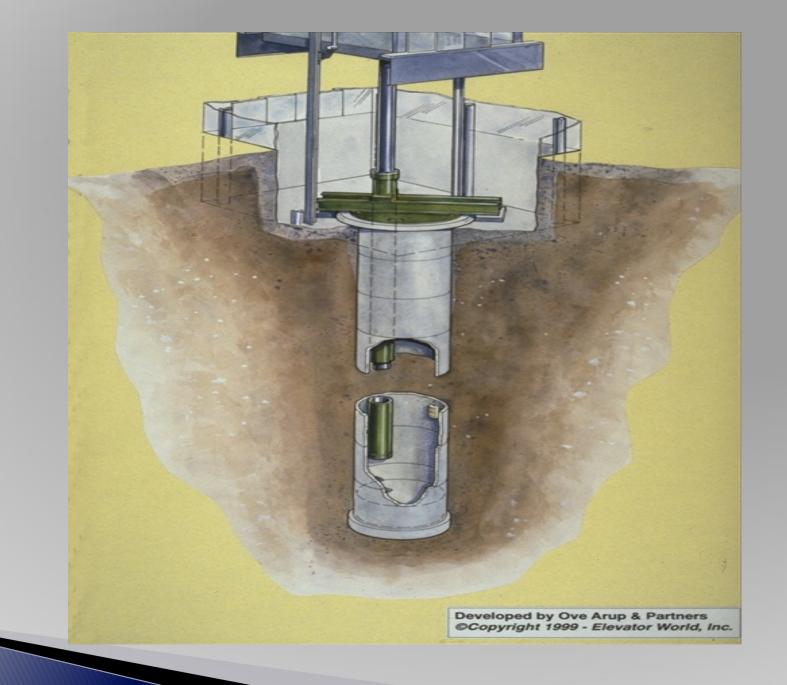




### Hydraulic Elevators In ground

- 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.

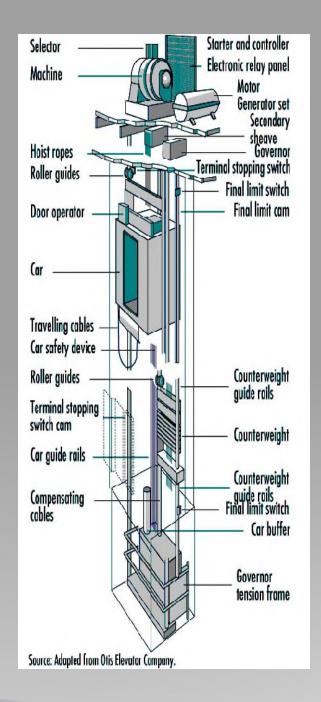


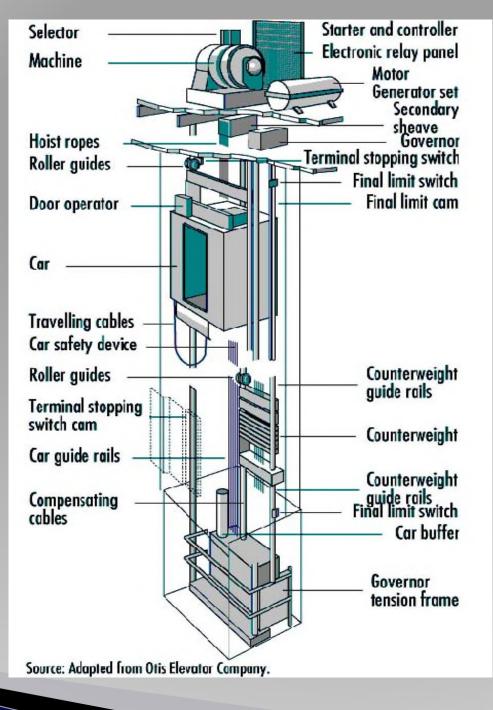


### **Traction Elevators**

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

#### Traction

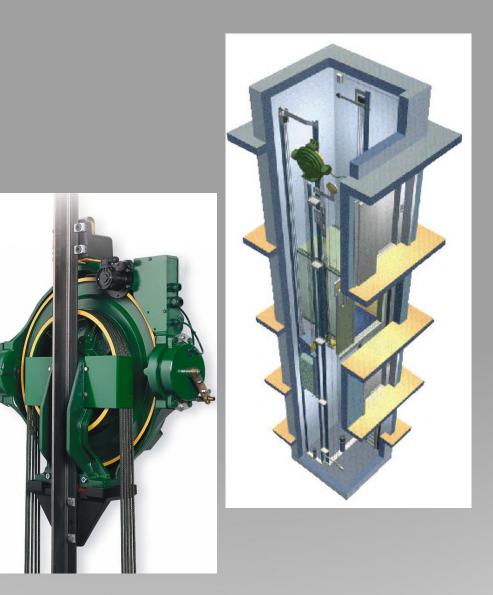




# MRL

#### • 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

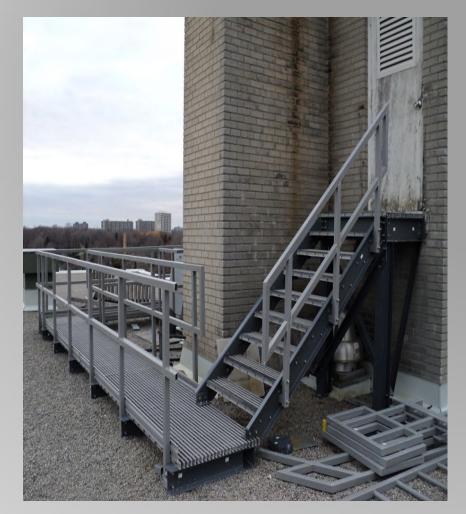


Four levels:

(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

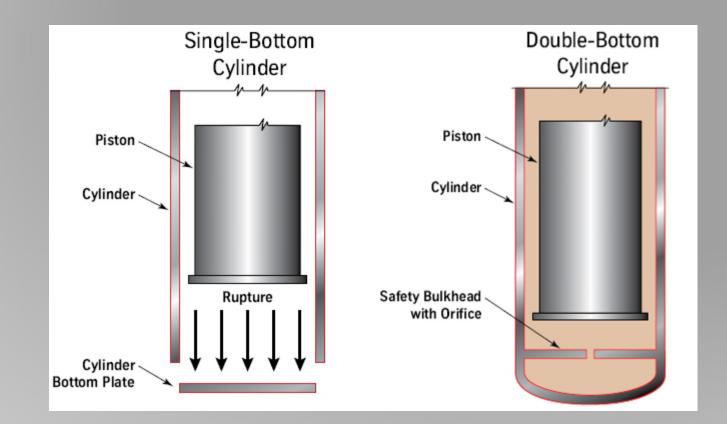
#### Retroactive

#### TSSA enforcement can occur anytime

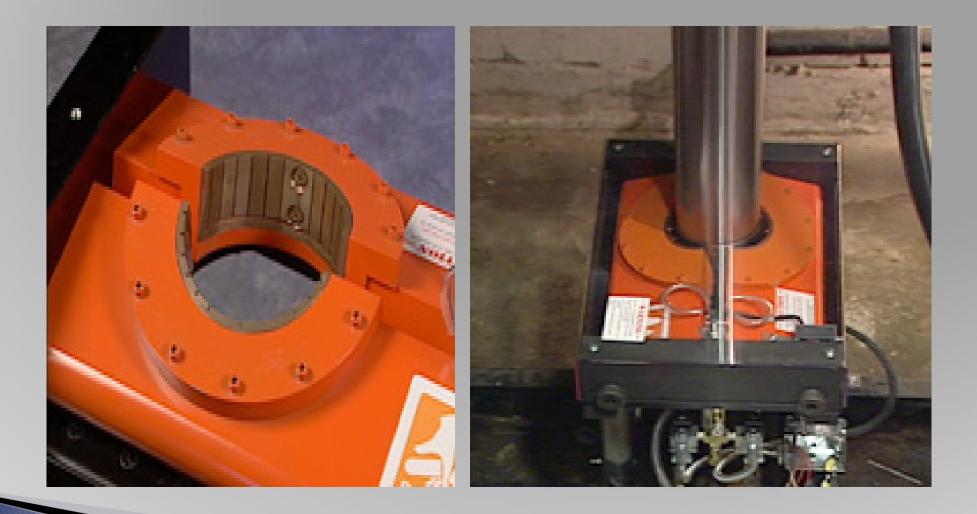


Single Bulkhead Cylinders TSSA Info Bulletin 243/10 Issued March 20, 2012

## Cylinder cross section

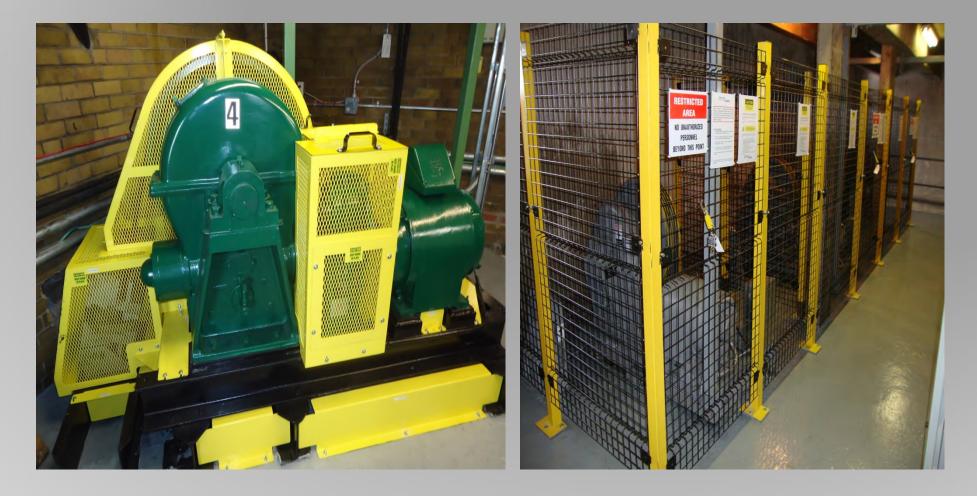


# Life jacket



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										
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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

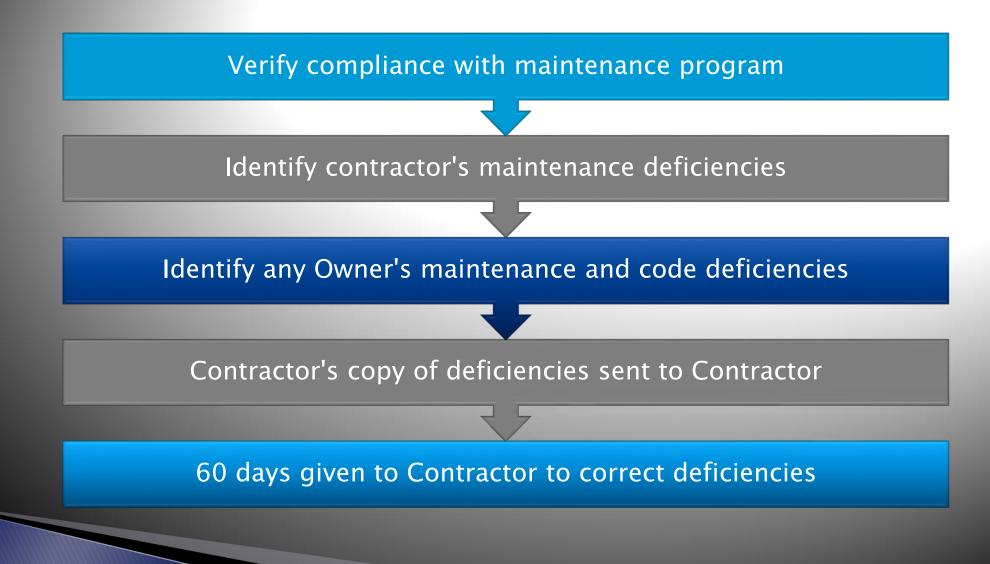
## **Custom Maintenance Contract**

- 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!