

### INTRODUCTION

My name is Chris Gutkes. I am president of Island Elevator

- Bottom line is, I'm awesome at this because I've been doing it my entire life
- How many elevator professionals do we have in the room?
- Don't forget that you have no idea what you are doing
- You don't want me putting out fires... I don't want you pretending to be an elevator mechanic





#### THE PROBLEMS

- Elevator manufacturers
- Elevator industry (mechanics)
- Building codes
- The public

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#### ELEVATOR MANUFACTURERS

- Over 60 manufacturers
- Elevators installed at different time periods conform to existing codes
- Elevator features and operations may vary
- Preplanning and examination of other elevators WILL be beneficial

# BUILDING CODES



- Codes change from year to year
- -Elevator drop key holes (not in all elevators)
- -Elevator side door emergency exits
- -Detectors in the machine room/hoistway

#### WHAT IS AN ELEVATOR SHAFT?

AN ELEVATOR SHAFT A hole in the center of the building with a hard stop at the bottom

Also known as an Elevator Hoistway

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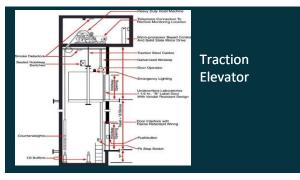
## **FALLING HAZARDS**

OSHA defines a 🌔 falling a hazard as a distance 4' or more

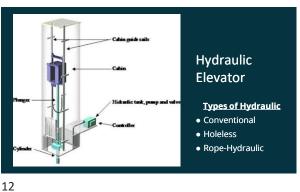


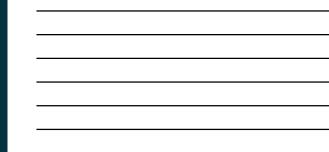
How many people in 🛱 this room can fly? There are two types of people when they fall FLAPPERS & SCREAMERS You do not want to find out which one you are



















- Power failure / fuses
- Malfunction of control components
- Activation of safety equipment
- Occupant stupidity / overloaded
- Interlock trip / limit switchesMechanical malfunction



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# **MACHINE ROOM**

- <u>Traction Machine Room comprised of</u>: machine controller and governor
- Hydraulic Machine Room comprised of: power unit and controller
- If one car is shutdown, the others are running
- Uncovered equipment will chew up and spit you out, especially with that bulky uniform you're wearing



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# MACHINE ROOM

 Disconnects: Mainline, cab lighting and maybe others
Do not remove the controller cover. Some are very tricky and if the power is still on you could

 <u>Battery lowering devices</u>: May or may not be engaged



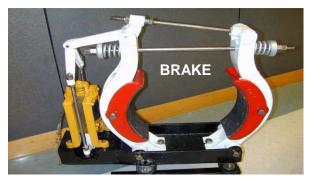
Vhat if you can't find the machine room? Vhat if you can't open the machine room

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HAZARDS Tripping Hazard Electrical Hazard Falling Hazard Pinching/Crushing/Caught in between



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## **ENTERING THE CAB**

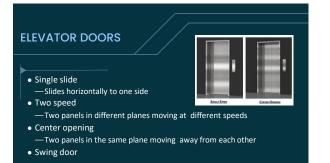
- Entering the car at floor level
- Entering the car when its high
- Entering the car when its low
- Danger zone is the threshold
- If it can be done: <u>HIT THE STOP</u> <u>SWITCH</u>-you may get the alarm bell



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Single Sliding Door

Two Speed Door

Center Opening Door

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