

### 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

5

#### 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

8

7

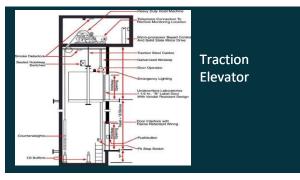
## **FALLING HAZARDS**

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

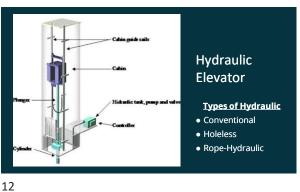


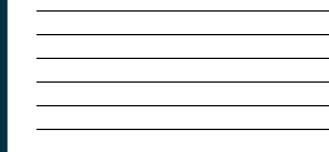
How many people in 🛱 this room can fly? There are two types of people when they fall FLAPPERS & SCREAMERS You do not want to find out which one you are











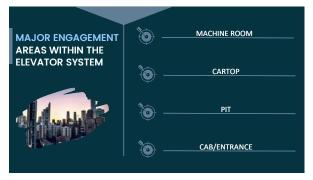








- Power failure / fuses
- Malfunction of control components
- Activation of safety equipment
- Occupant stupidity / overloaded
- Interlock trip / limit switchesMechanical malfunction



17



# **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



19

# 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



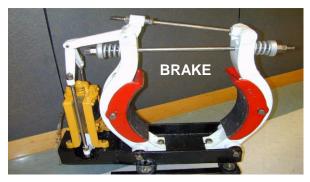
Vhat if you can't find the machine room? Vhat if you can't open the machine room

20











25











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



29





## **ENTERING THE CAB**

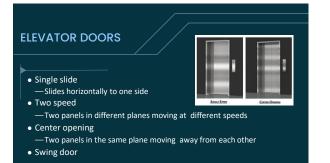
- Entering the car at floor level
- Entering the car when its high
- Entering the car when its low
- Danger zone is the threshold
- If it can be done: <u>HIT THE STOP</u> <u>SWITCH</u>-you may get the alarm bell



32













Single Sliding Door

Two Speed Door

Center Opening Door

#### 35

