Elevator Shafts

ASD 535 Application Report

SECURITON

For your safety

Content

- **Risks, Cause & Damage**
- **Challenges**
- **Application Scenarios**
- **Benefits**

Elevator Shafts

Risk, Cause & Damage

Main risk is a building fire generating ***smoke*** entering the shaft.

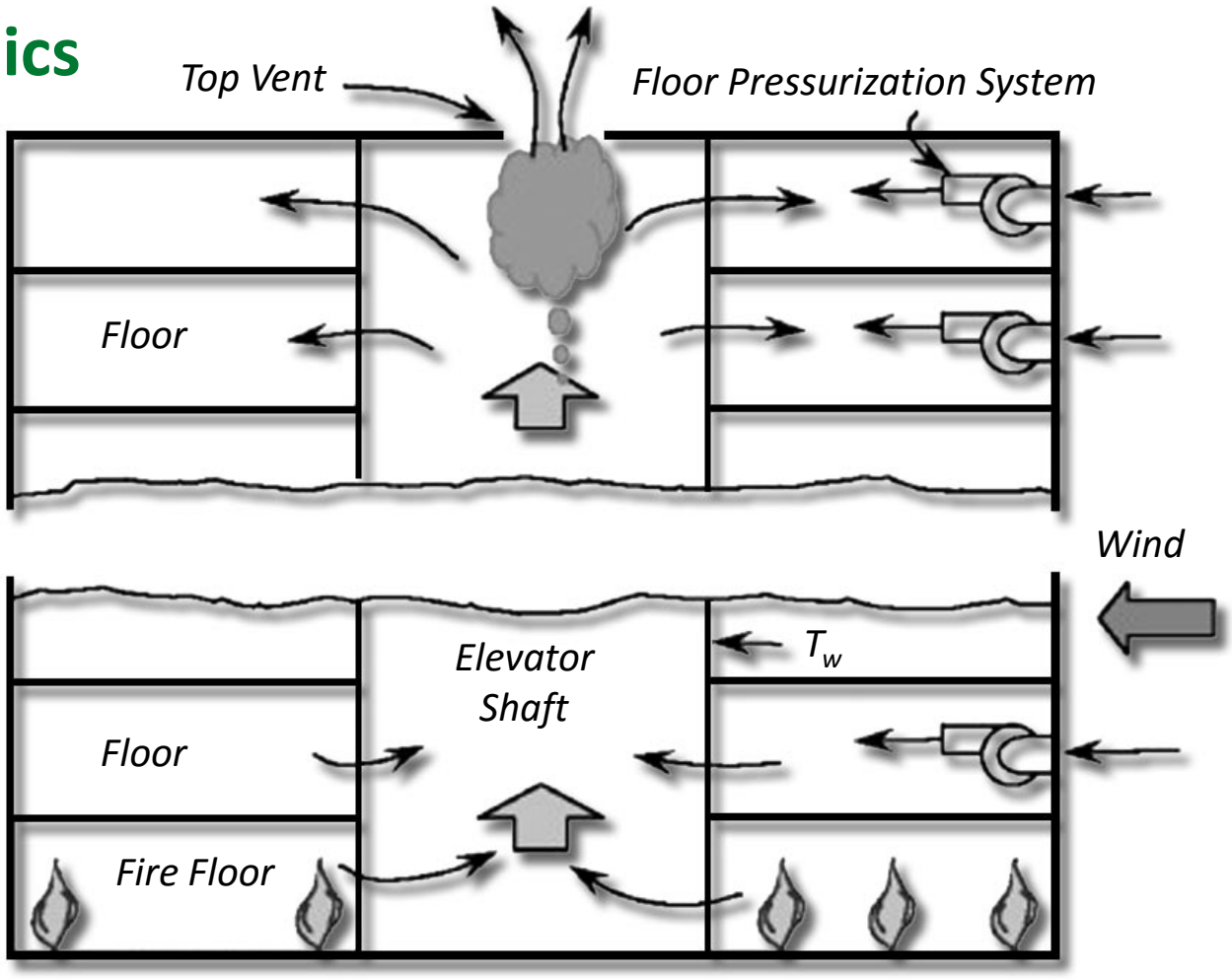
Heat and ***friction*** being an ignition source for combustible parts in the shaft.

High ***death toll*** being the main consequence.

Elevator Shafts

Circulation Dynamics

- Smoke Dilution
  - Elevator pressurization
  - Rapid air movement
  - Fresh air

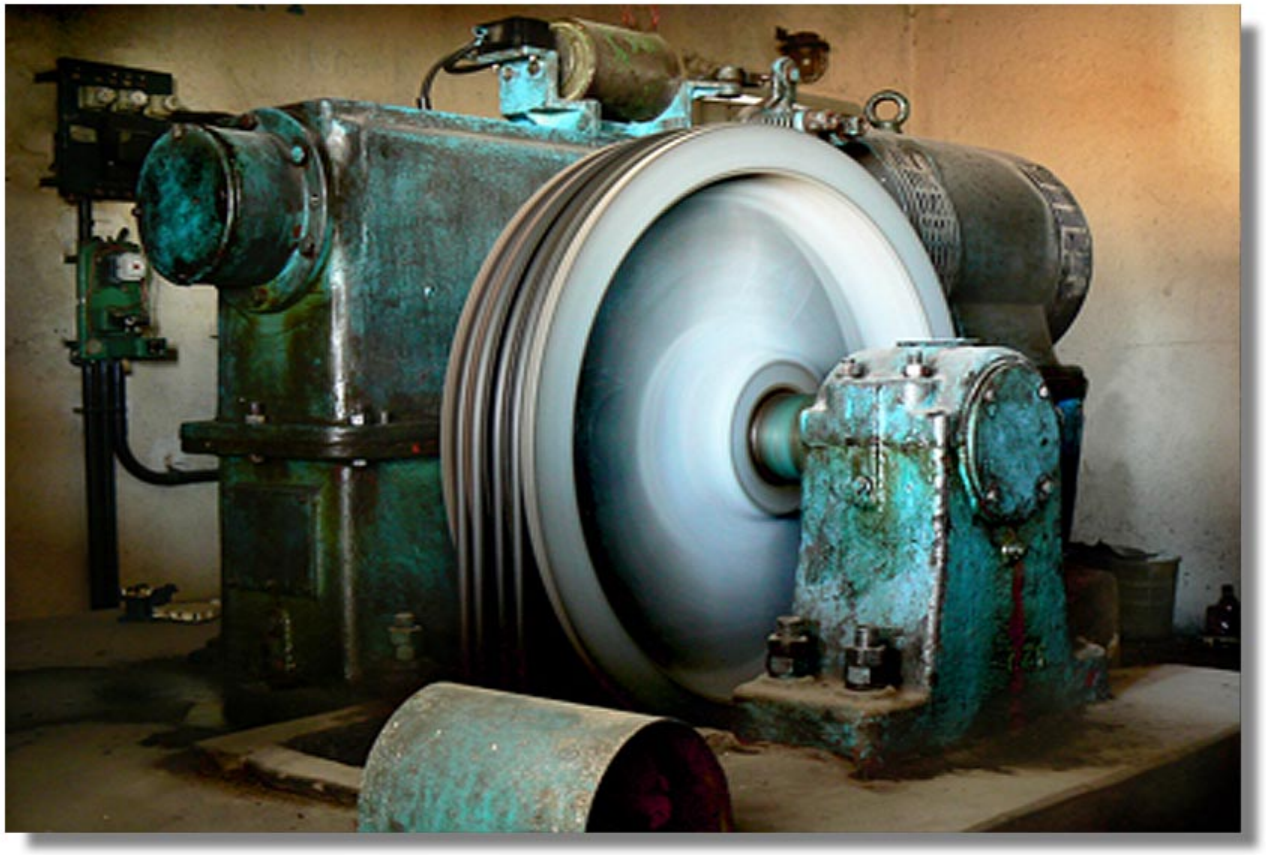


Difficult Access

- Serviceability
  - Coordination
  - Workplace Safety
  - Downtime of the elevator
  - Number of test points
  - Place of test points

Difficult Detection

- Performance
  - Oil and greasing products
  - Humidity
  - High Temperature
  - Abrasives creating dust

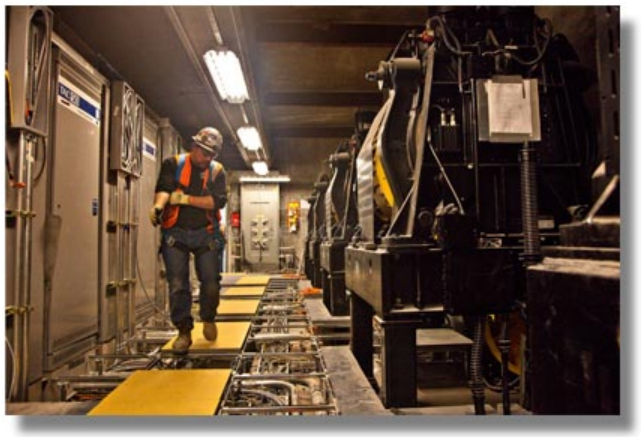


Elevator Shafts

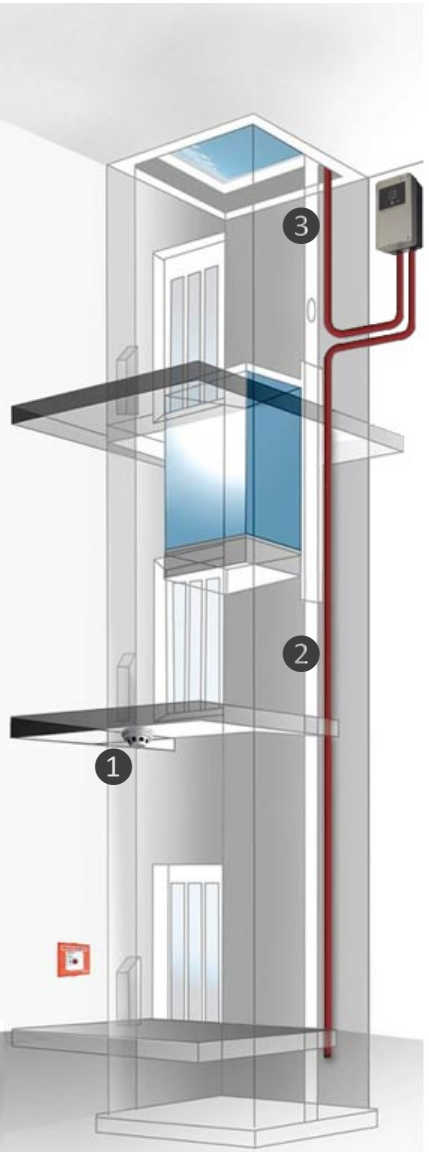
Application Scenarios

1. *Area Monitoring*
   - *Rooms next to the elevator shaft*

2. *Elevator Shaft*
   - *Tube within the elevator shaft, detector outside*
   - *Tall Buildings: Tube covering the entire height*



3. *Engine Room*
   - *Engine Monitoring*
   - *Tall Buildings: Switching Cabinets*



Elevator Shaft

User Benefits

Claim	Benefit	Proof
Most reliable detection	• Active sampling is the method of choice for a high airflow environment	Actively sampling the air with adjustable sensitivity and aspiration power
Most efficiently serviceable system	• High returns during maintenance	• Unit is placed outside the shaft • The lower number and better accessibility of the test points results in lower maintenance cost
Allows for a staged approach	• Early warning without the risk of unwanted evacuation	Four sensitivity levels allowing for Alert, Action, Alarm and Extinguishing Release

Thank you for your attention!

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