Conveyance Program Stakeholder Presentations



Conveyance Program
Outreach
Division of Oil and Public
Safety







Mr. James Calder Building Services Manager 2001 Colorado Blvd. Denver, CO 80205

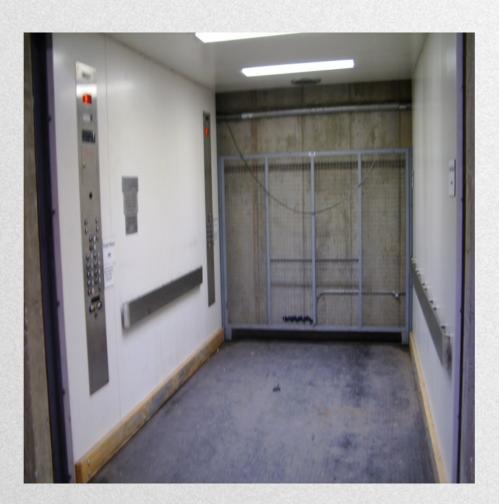




DENVER MUSEUM OF NATURE&SCIENCE













Equipment	DMNS Ref	Service	Machine	Comments	Phone ID	State ID	Mfct		Notes	CO Expires	5-Year Load Te	st
West Atrium Elevator (Left)	#1	Otis	518132	Traction	303-331-4003	CP08-002800	Otis		11100	April 2019	Done 2018	
West Atrium Elevator (Right)	#2	Otis	919559	Traction	303-331-4007	CP08-002801	Otis			April 2019	Done 2018	
North Passenger Elevator	#3	Kone	2E+07	Traction	303-331-4008	CP08-002802	Kone			February 2020	Done 2018	
South Passenger Elevator	#4	Kone	2E+07	Traction	303-331-4009	CP08-002803	Kone			February 2020	Done 2018	
Freight Elevator	#5	Otis	906463	Hydraulic	303-331-3869	CP08-002804	Otis			April 2019	Done 2018	
IMAX Elevator	#6	Otis	814532	Hydraulic	303-331-4017	CP08-002805	Otis			April 2019	Done 2018	
NLD Freight	#7	TKE	34EAX315	TAC 32 / Hydraulic	303-331-3888	CP11-001558	TKE	First in Service	e : October 20, 2011 / SN 33853	April 2019	Done 2018	
ECF Freight	#8	TKE	CBD270	Traction	303-331-4030	CP12-000807	TKE	Registration to OPS 1-25-13 / SN 57363		April 2019	Done 2018	
ECF Passenger	#9	TKE	CBD269	Traction	303-331-4059	CP12-000808	TKE	Registration to OPS 1-25-13		April 2019	Done 2018	
Escalator (1 st to 2nd)	#9	Kone	9	Escalator	N/A	CP15-000230	Kone	First in	Service : March 21, 2016	April 2019	Annual Witness Re	equired
Escalator (2nd to 3rd)	#10	Kone	10	Escalator	N/A	CP15-000231	Kone	First in Service : March 21, 2016		April 2019	Annual Witness Re	equired
Escalator (3rd to 2nd)	#11	Kone	11	Escalator	N/A	CP15-000229	Kone	First in S	ervice : November 10, 2015	April 2019	Annual Witness Re	equired
Escalator (2nd to 1st)	#12	Kone	12	Escalator	N/A	CP15-000228	Kone	First in S	ervice : November 10, 2016	April 2019	Annual Witness Re	equired
Prehistoric Journey Lift	#13	Otis	C31895	Lula Unit	303-331-4041	CP08-002806	Cemco	Code Pla	ate 1993 / Installed 1995	April 2019	Done 2018	
Prehistoric Journey Lift	#14	Otis	C31900	Lula Unit	303-331-4018	CP08-002807	Cemco	Code Pla	ate 1993 / Installed 1995	April 2019	Done 2018	
Parking Garage (Left)	#1	TKE	EP7274	TAC 20 Unit / Hydraulic	303-331-4042	CP08-002808	TKE	EO6294-001		April 2019	Done 2018	
Parking Garage (Right)	#2	TKE	EP7275	TAC 20 Unit / Hydraulic	303-331-4043	CP08-002809	TKE	EO6294-002		April 2019	Done 2018	
Vertical Material Lift	Kitchen Lift	Welch	17993	Hydraulic	N/A	N/A	P-Flow	First in Service - November 8, 2018		N/A	100,000,000	
Otis Line	800-233	-6847									·	
Otis - DMNS Building ID	TMN15											
									South Freight / Tank	Capacity 597 gallo	ns / uses 418 gallons	5
Kone Line	877-276	877-276-8691							North Freight / uses 2	North Freight / uses 220 gallons of hydraulic oil		
Kone - DMNS Building ID	51849	5184941							IMAX / Tank Capacity	IMAX / Tank Capacity 123 gallons / uses 48 gallons		
35									Parking Garage #1 / 1	ank capacity 156	gallons / uses 89 gall	lons
TKE Line 30		-8566							Parking Garage #2 / 1	Parking Garage #2 / Tank capacity 156 gallons / uses 89 gallons		lons
TKE - DMNS Building ID De		Denver Museum of Nature & Science							VML - P-flow Lift - 5 (VML - P-flow Lift - 5 Gallon Capacity		
Welch Equipment	303-393	-8181										
Josh McCaslin - Service R	ep 303- 550)-14 7 6										
State Facility ID	08-001	1761										





Helpful Tips to Compliance

- Know your equipment and location of equipment rooms (Types and age, State CP numbers, inspection dates, CO expiration)
- Establish good working relationships and lines of communication with service providers, inspector and AHJ (Account reps, service supervisors, mechanics, inspector, AHJ contact)
- Hold service providers accountable (PM, MCP's, response times)
- Schedule annual inspections in advance and follow up on TCO's
- Commit to workplace and building safety
- Simplify (Align inspection dates, utilize e-services, create building log)
- Stay informed of changes in code and regulatory requirements
- Utilize resources for information and support (OPS, AHJ, regulations stakeholders, industry consultants)











James Calder

James.Calder@dmns.org

303-370-6375

John Bole King Soopers / City Market Facility Engineering



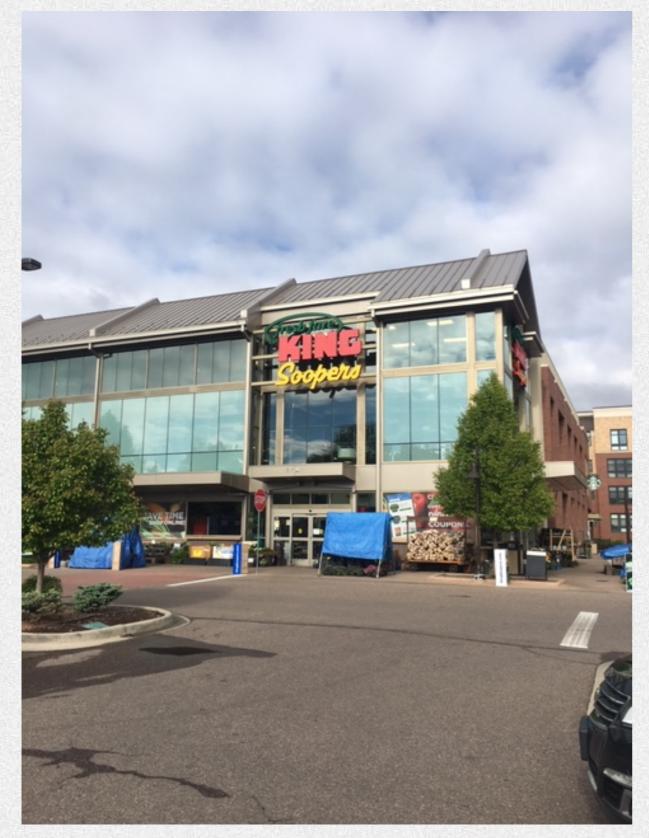
Elevator Maintenance



Overview

- Owner responsibility for over 50 elevators for a variety of uses
- My experiences learning about elevator maintenance and regulations
- Methods I use to manage King Soopers/City Market Elevators
- Conclusion

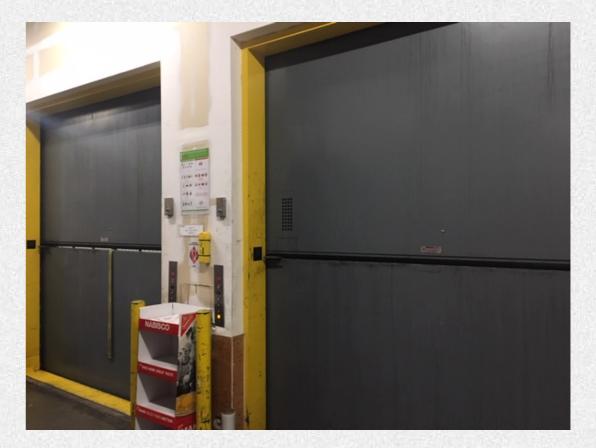


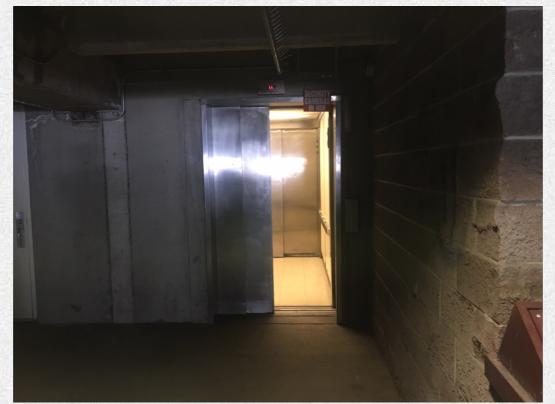






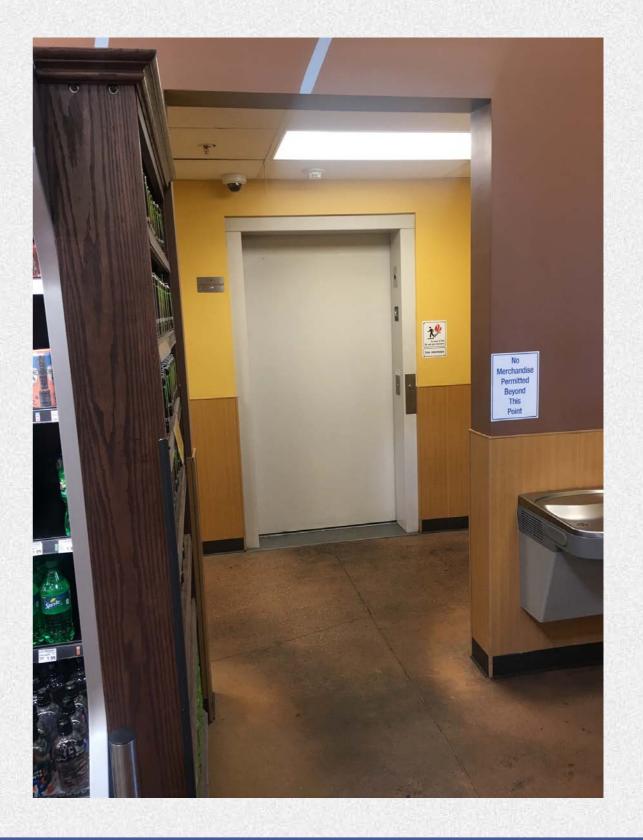


















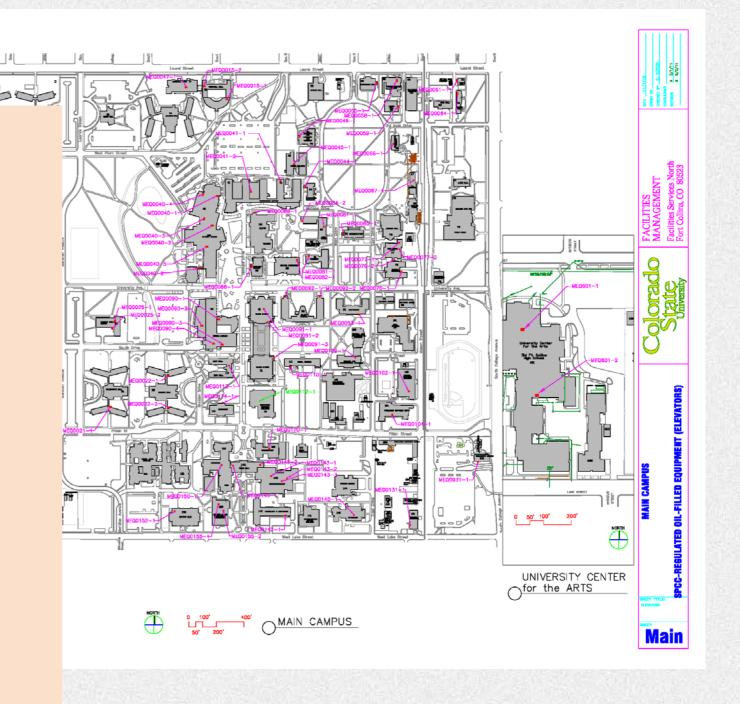
Elevators...
An Owner's
Perspective



CSU Owns Elevators.

178 elevators

- 1956 to 2019
- Various capacities, speeds, heights
- Freights, passengers
- Hydraulic, traction
- Critical (housing, medical)
- Not so critical





lam an Owner – I need to know...

Inspections

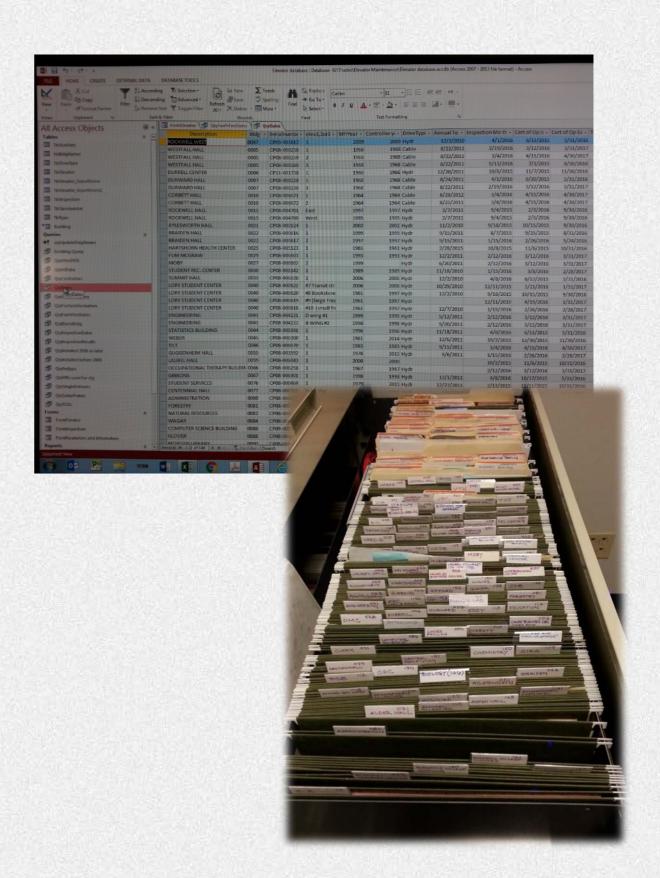
- Annual
- Five-year
- Monthly fire service and phones
- Certificates of Operation
- Entrapments
- Repairs
- Upgrades/modernizations





How to keep track?

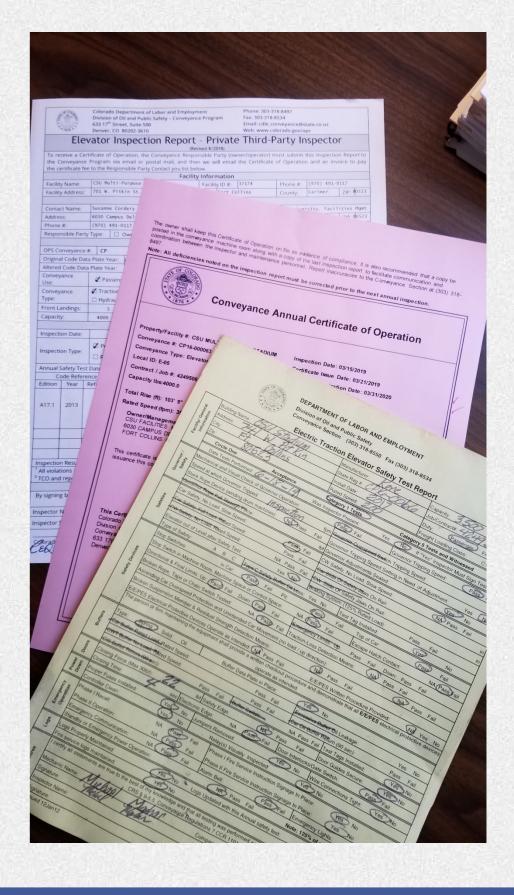
- Your own spreadsheet or database
- Filing cabinet
- Always use the CP number.





Most Important for owners:

- Inspection report
- Certificate of Operation
- Safety Test Report





Maintenance Control Program (MCP)

How CSU solved the MCP dilemma

QR code!

Affixed to controller

Readable using smart phone

Contains all requirements

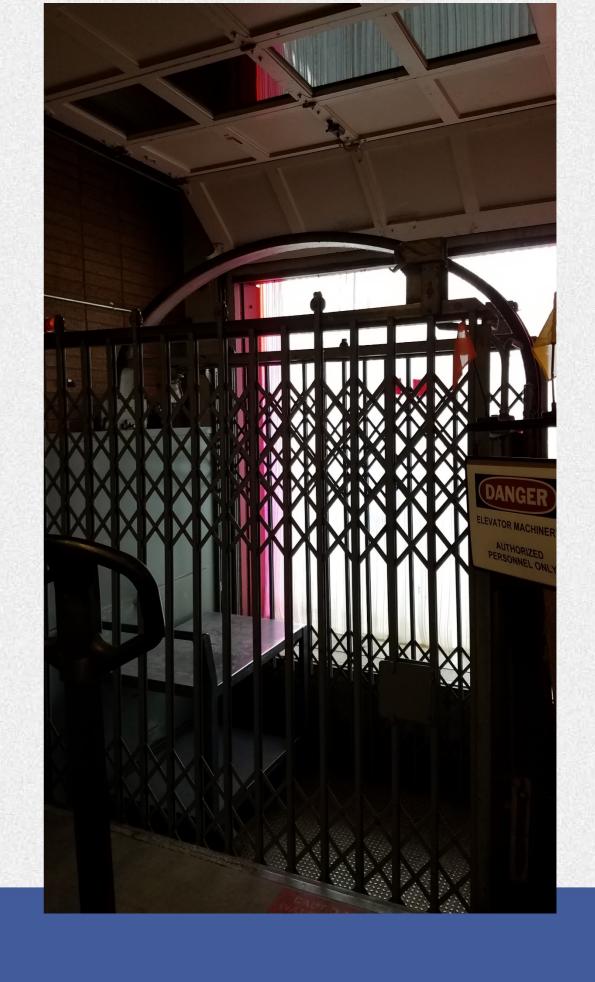
Easy to update from office





Where to get help?

Elevator consultant
OPS
Peers
Third party inspector
Elevator service
company





Common Owner Issues

Inspection report inaction
Violations, TCO affidavits
Elevator maintenance contractor
relationship
Missing deadlines (know how to search the
database)



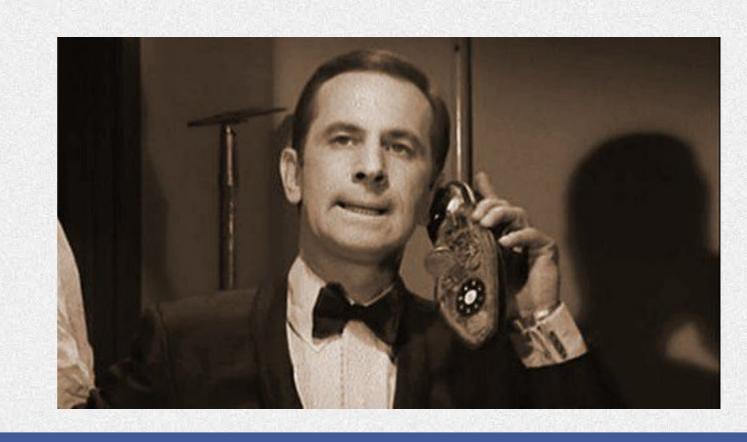
Tips for success?

Track your elevator using the CP number

Take action, don't sit on it

Know how to find the three important documents for each elevator

Don't be afraid to call OPS





Thank you.





Susanne Cordery 970-491-0117 Steve Helburg 970-561-1023



Northwest Colorado Council Of Governments (NWCCOG)

Elevator Inspection
Program (EIP) Overview and
Q/A



Program Overview

David Harris – Director



 NWCCOG's EIP represents five counties and 23 cities/towns covering nearly 2,000 conveyances.

• The EIP was created in 1993. Prior to that, conveyances within the region were not inspected for safety.

 After the creation of a single State wide standard, the EIP entered into an agreement to become the authority enforcing the states minimum standard within its jurisdiction



Inspect all regulated conveyances on an annual basis.

 Performs acceptance or "final" inspections on all newly installed equipment to insure that all violation are addressed before turning the equipment over to the owner

 Work with conveyance owners and contractors in scheduling any required witness tests.



 Performs plan review and issues permits for all newly installed or altered conveyances.

 Issues all temporary or annual Certificates of Operation (CO).

 Work directly with conveyance owners, building departments and fire authorities in explaining regulations and policies.



Employs staff inspectors.

 Will use contract inspectors to help with work load when necessary.

 Third Party Inspectors are not permitted to perform inspections with the EIP Jurisdiction.



Enforcement



• After an audit by State officials in 2017, it was found that the EIP program was not enforcing the State minimum requirements as outlined in the Memorandum of Operating Agreement (MOA).

 In January of 2018 a new director was hired to help address this issue.



- Early Spring of 2018 EIP starts working on a database to address compliance and enforcement.
- Summer of 2018 the enforcement program is launched.
- At the time of implementation 800 plus conveyances were operating without a valid Certificate of Operation.



Current Status –

• As of August 2019 72% percent of conveyances are now operating with a valid certificate of operation.

EIP is striving for a compliance rate of around 95% percent by August 2020.



Enforcement Process

- Annual Inspection with no TCO violations found, a Certificate of Operation is issued.
- Annual inspection with TCO violations found, a Temporary Certificate of Operation (TCO) is issued with 90 days to correct by submitting an affidavit to NWCCOG.



- TCO violations not corrected by TCO expire date, a Notice of Violation (NOV) with a \$500.00 fine per conveyance is issued. This must be corrected within 30 days of issuance by submitting an affidavit to NWCCOG
- NOV not corrected and fine not paid by due date, a Notice of Enforcement Order (NEO) with a \$1,000.00 penalty per conveyance is issued. This must be corrected within 30 days of issuance by submitting an affidavit to NWCCOG.



 NEO not corrected, then possible shut down of the conveyance(s)

 All fines and any outstanding invoices must be paid before NWCCOG will close the enforcement procedure and issue a CO.



By the Numbers

- As of July 2018 the EIP as issued a total of 1,069 TCOs
- 293 Notice of Violations
- 80 Notice of Enforcement Orders



New Requirements for 2019/2020

 Effective December 1st, 2019 EIP will move away from 90 day TCOs and start issuing 60 day TCOs.

 All conveyance contractors now must use new test forms approved by the EIP for consistency.



Website Overview

Sue Hobrock; Operations Manager

Bryanne Busato: Administrative Assistant

