

Form WMSC-IR-1

Washington Metrorail Safety Commission

Agency/Department Information

Inspection Date	YYYY	MM	DD	Danast Number	Report Number 20200925-WMSC-MAL-1					
Inspection Date	2020	09	25	Report Number						
Rail Agency Name	Washington Authority	ton Metropolitan Area Transit Y		Rail Agency Department	ELES	Sub- Dep	partment	Union Station		
	1	Name		Email	Office Phone	2	N	Nobile Phone		
Rail Agency Department										
Contact Information										
	Union Stati	on – BO3	•		1					
Inspection Location	701 First St	NE,								
	Washingto	n, DC 20002								

Inspection Summary

Inspection Activity #	1	2	3	4	5	6
Activity Code	VT-WI-PI					
Inspection Units	1					
Inspection Subunits	1					
Defects (Number)	1					
Recommended Finding	No					
Remedial Action Required ¹	No					
Recommended Reinspection	No					

Activity Summaries

Inspection Activity #	1	Inspec	tion Subj	ect	Virtual	Inspect	ion			Activity Co	ode	VT	г	WI	PI
Job Briefing Employee Name/Title	WMATA Inspection				mpanied ector?	N/A	Out Brief Conducted	N/A	Time	Virtu	ual	Outside Shift	No		
Related Reports	N/A					Relat	ted CAPS /	Findings							
	Ref				Rule or	SOP		Standard		Other / T	itle		Check	klist Refer	ence
Related Rules, SOPs, Standards, or Other	and P Hand	rocedui book (N	ety Rules res ISRPH). Ifety Rule												
I	Mai Trac		Yard	Stat	ion	осс	RTA Facility	WMSC Office	Torock Toroc	At-grad	e Tu	nnel	Elev	/ated	N/A
Inspection Location				Х	1				Track Type						X
	DOS		Track				Chain Ma	rker		From			То		
Line(s)	B03		Numbe	er	N/A		and/or Station(s		N/A			N/A			
	Hea	ıd Car N	umber		Number	of Cars									
Vehicles		N/A			N/	A	Equip	ment	N/A						



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		Number of Defects	1
	WMSC Inspector conducted a virtual rules compliance inspection of WMATA's Union Station on the Red Line. The inspector requested numerous documents	Recommended Finding?	No
	from daily activities performed at this facility for compliance with Metrorail Safety	Remedial Action Required?	No
Description	Rules and Procedures Handbook (MSRPH), as well as equipment maintenance activities, incidents, and documentation. The following documents were reviewed: ELES Completed Housekeeping and Daily Check Sheets Completed Housekeeping and Daily Check Sheets were not provided, only a work order was provided stating that the Housekeeping and Daily Check Sheets were completed. ELES is requested to provide copies of completed Housekeeping and Daily Check Sheets from August 24 through 28, 2020 for Union Station, Congress Heights, and College Park Stations. ELES Escalators Periodic Maintenance (PM) Check Sheets The PM check Sheets list deficiencies found during the escalator PM. The PM Check Sheets do not clearly reference which deficiency, by item number (i.e. Item # 3), was corrected or left open during the escalator PM cycle. See below a Checklist for Safety Inspections of Elevators and Escalators, which clearly references which deficiency, by item number, was corrected. ELES Checklist for Safety Inspections of Elevators and Escalators was reviewed, and the following information is provided. The Checklist for Safety Inspections of Elevators and Escalators state deficiencies found. The re-inspection checklist clearly references which deficiency, identified by Item # (i.e. Item # 1.6), was corrected or repaired on the elevator or escalator number during the re-inspection cycle. See attachments #3 and #4.	Recommended Reinspection?	No
Remedial Action	N/A		
Effective Practices	Effective Practices		
Lifective Flactices	ELES's team was very supportive.		



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Attachments 1 and 2 – ELES Escalators PM Check Sheets

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metr	Escalator PM Check Sheet washington metropolitan area trans	IT AL	JTHORE	ſΥ	Office of	FSVI Elevators & Es		Serviceses
STATIC	ON NAME: UNION STATION	Mezz	#: 24				UNIT ID#	: B03\$04 Esc
PM TYP	north and the real configuration and the con	-	DATE/TIN	IF STA	RTED	DATE / TIME CO	100000000000000000000000000000000000000	TOTAL HOU
E	15731505		8/20/20 00		KILD	8/20/20 0500	MIFELIED	TOTALTIOO
		7500	- 0					
TEM	PROCEDURE DETAILS	0	K NG	NA.	COMMENT	18		
A-Lev	el (Item 1-11)							
1								
2			1		1			
	Exterior Panel System: (a) Check/Correct gaps exceeding 1/8" on balustrades, light frames, H/R decking, skirt	9						
3	decking. Check if proper hardware installed and make					Decking miss	eing hardw	are screws, one bent sc
	sure all are right.		22 22					
4	Skirt Brushes: (a) Check if it is properly secured.							
	Secure/Replace as needed. Lighting Fixtures: (a) Visually check for required	-						
5	Illumination, (b) Clean lenses or re-lamp as needed.		0, 0					
828	Key Switches: Check for proper operation. Key switches	1723						
6	must return to neutral position when released.							
_	Repair/replace as needed. Bearing Plates: (a) Check for even fit, tripping hazards,	55.00	8 8		9			
7	missing screws, gaps. (b) Open PLNT ticket for nonskid	-						
	material repair.	•	2 2		c			
	Combplate Assembly: Inspect and correct for (a) Proper	2						
8	penetration. (b) Damaged and/or sharp teeth. (c) Proper							
_	end cuts. (d) Clearance of end plate to skirt. Step Assembly: Walk steps, (a) Check for worn/broken	8	2 2		\$			
9	demarcations, (b) Check for sharp/broken tread boards.							
1200	Repair/replace as needed.	_						
	Hand Rall: (a) Check for smooth operation, tension,	_	9		12			
10	(Ensure each handrall is moving at the same speed as the steps). (b) Check for excessive wear/damage.	•						
	Brake(s): (a) Inspect for wear and ensure there is no oil.	-	2 2					
11	(b) Torque brakes (schedule replacements if below 90							180 f
	ft-lbs, replace now if below 70 ft-lbs.)		- 200		***			
B-Lev	el (Item 1-22)							
	Hand Rall Bell: Check/adjust for proper audible and shut off time. Repair/replace damaged parts as needed.							
	Hand Rall Drive Assembly: (a) Visually inspect for	-	-					
	wear/damage to drive, belt, chains. (b) Lubricate and							
12	clean rollers, chains and belts.	-	20 20					
	Hand Rail Tracking System: (a) Visually inspect for wear/damage to tracks, guides, newel ends, rollers. (b)							
	Remove and clean out debris. (c) Replace snap on track					top left hr bo	ot switch r	noisy recently replaced
	as needed.	0.						
	Comb Impact Device: (a) Verify settings are: 140 - 150 lbs	_		(2)		FOR 40 - 11 000 -	00- 700 5	H 440 040
13	vertical. (b) 300 - 400 lbs. horizontal, and (c) 600 - 800 lbs. center horizontal, Document the readings.			1	op vertical 1	50/140 adj 330a/3	60a /60 Bo	ottom 140 340ady375adj
	Roller Tracking Assembly: (a) Visually Check all steps,	200	9 9		5			
14	axle, horizontal guide rollers. (b) Check turnaround for							
	proper clearances. (c) Check track at landing areas for							
Tyrana.	misadjustment, broken welds and wears Step To Skirt Clearance: (a) Check/adjust the clearance	-			5			
15	not to exceed 3/16" on either side.	•						
	Pit Area Equipment: (a) Visually inspect and clean pit		1		20			
40	area and equipment, including top/bottom truss pans. (b)	_						
16	Check pit receptacle and lights (proper guards and cover). (c) Check all hatch covers, railings and safety	•						
	chains. (d) Check that drain is not obstructed by debris.	000	.00		00.			



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	The second section		EMILES MAINTENANCE	and the second second						38	
STATIO	N NAME: UNIC	N STATION		1	Mezz#:	24				UNIT ID#: B	03\$04 Eec
PM TYP	WORK ORDER #				DA	TE/TIM	E STA	RTED	DATE / TIME O	COMPLETED	TOTAL HOU
	20.	15731505			8/2	0/20 00	00		8/20/20 0500		9
ITEM	PROCEDURE	DETAILS	V5 - 73		FINDIN	IG		COMMENT	S	•	
17	verify proper actuators.	operation. (t	BOAT CONTRACTOR OF THE PARTY	p toop Step Leve	el Switc	h gi ve	Intern	nittent safet	y circuit fault ar	nd does not trip	all the time with run t
18	belts, chains, sprocket, bes smooth ride.	llquid-tight or rings, and ci	lly inspect all com conduit. (b) Lubric nains. (c) Adjust d	ate idler/drive	•						
19	level and che side moveme	ck for leaks. nt on output	y Inspect reducer. (c) Ensure there is shaft. Tighten all	s no side to screws.	•						
20	(b) Visually C	heck for dan	Oil the step-chair nage and excessiv inspect equipmen	e wear.	•						
21	operation. (b) operation and Indicator ope	Check main loose conn ration. (d) Ch	line disconnects f ections. (c) Check eck for water intr	or proper fault usion.	•		-				
22			ck gauge (In greer nitial and date).	area), pin,	•						
E-Leve	el (Item 1-28)										
23	walkways and	machine ro		- 69			•				L Ticket Clean Do
24	drive operation	n. (b) Inspec en needed.	ge reducer oil. Che t in detail all drive	components			•				
25	Roller Trackir misadjustmer		heck entire track : reids, wear.	system for	•						
26	Truss Assemi & fastenings.	bly: Perform	random check for	loose fittings	•						
27		Tighten loos	ct junction boxes e connections. (c)		•						
28		nects. (b) Ct	Clean, check trans eck for cabinet da		•						
Comm	100		ems During PM		2	X 5					
ADJUS	STED ALL COM	B IMPACT S	WITCHES TO WIT	HIN SPEC							
	54			20	-						
ITEM!	NUMBER WO	ORK ORDER	TICKET NUMBER	TICKET T	YPE	ITEMS	IDENT	FIED FOR C	ORRECTEIVE	ACTION	
e e											
Call MC	OC (x 2-1920) to	open PLNT	work orders for its	ems associated	with ea	calator	struct	ure and floo	ring problems.	<u> </u>	
		200000000000000000000000000000000000000	artment work orde		10			20 N N		S 61	
	IC (x 8-7587), (x ANIC (SIGNATI		x 8-7589) to open (MECHANIC (SIG		_			inciencies. D IATURE, ID#		ions above. SOR (SIGNATU	RE. ID#)
JAC OF IS	Bryan R. E008		medianio (did	THE STATE OF	- mc	- I MITTER	- Justin	CALL TOTAL TOTAL	Hart, Alon		, 104)

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Attachments 3 and 4 – Checklist for Safety Inspections of Elevators and Escalators

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Station Name Union Station		QEI #/Certification: C-5404			
Rated Load/Rated Speed 2500 lbs / 75 fpm		Type Of Inspection: Re-inspection			
ID Number: B03N02		Last Maintenance:			
Code Year: A17.1-2000		Last Cat 5 Test Due 2021			8
MAXIMO # 15457003		Re Inspection Date 2/17/2020			
100 T	OK NC N/A		OK	NC	NI/A
Requirement/Inspection Area	OKNG N/A	Requirement/Inspection Area	UN	NG	N/A
1. Elevator - Inside of Car 1.1 Door Reopening device		3.11 Hoistway Smoke Control	X		
1.2 Stop Switches		3.12 Pipes, Wiring & Ducts	[X]	5-	- 5
1.3 Operating Control Devices		3.13 Windows, Projections, Recesses & Setbacks	X	<u> </u>	_ =
1.4 Sills and Car Floor		3.14 Hoistway Clearances	N N	<u>-</u>	- 5
1.5 Car Lighting and Receptacles		3.15 Multiple Hoistways	×	<u> </u>	- 5
1.6 Car Emergency Signal		3.16 Traveling Cables and Junction Boxes	X	<u>-</u>	- 5
1.7 Car Door or Gate		3.17 Door & Gate Equipment	X	<u>-</u>	- 5
1.8 Door Closing Force		3.18 Car Frame & Stiles	X	<u>-</u>	— <u>-</u>
				2 - 15	
1.9 Power Closing of Doors or Gates		3.19 Guide Rails, Fastenings & Equipment	X		_ □
1.10 Power Opening of Doors or Gates		3.20 Governor Rope		<u> </u>	×
1.11 Car Vision Panels and Glass Car Doors		3.21 Governor Releasing Carrier			×
1.12 Car Enclosure		3.22 Wire Rope Fastening & Hitch Plate			X
1.13 Emergency Exit		3.23 Suspension Rope			×
1.14 Ventilation		3.30 Speed Test	X		
1.15 Signs & Operating Device Symbols		3.31 Slack Rope Device- Hydro A17.1b-1989			×
1.16 Rated Load, Platform Area & Data Plate		3.32 Traveling Sheave- Hydro A17.1b-1989		o -	×
1.17 Standby Power Operation		3.33 Counterweight			×
1.18 Restricted Opening of Car or Hoistway Dr		oloo oounto wolgin		_	
1.19 Car Ride		4. Elevator - Outside Hoistway			
1.15 Cal Nice		4.1 Car Platform Guard	×		
2. Elevator - Machine Room		4.2 Hoistway Doors		×	
2.1 Access to Machine Space		4.3 Vision Panels	×	o -	_ 0
2.2 Headroom		4.4 Hoistway Door Locking Device	×	o -	_ 0
2.3 Lighting and Receptacles		4.5 Access to Hoistway	×		
2.4 Machine Space		4.6 Power Closing of Hoistway Doors		<u> </u>	X
2.5 Housekeeping		4.7 Sequence Operation	5	6-	×
2.6 Ventilation		4.8 Hoistway Enclosure	×	5-	
2.7 Fire Extinguisher		4.9 Elevator Parking Device		5-	×
2.8 Pipes, Wiring and Ducts		4.10 Emergency Doors in Blind Hoistways		<u> </u>	×
2.9 Guarding of exposed Auxiliary Equipment		4.12 Standby Power Selector Switch	_	5-	×
2.10 Numbering of Elevators, Machines, Disconnects				-	- 00
2.11 Disconnecting Means and Control		5. Elevator - Pit			
2.12 Controller Wiring, Fuses, Grounding, Etc.		5.1 Pit Access, Lighting, Stop Switch & Condition		X	
2.13 Governor, Overspeed Switch & Seal		5.2 Bottom Clearance, Runby, Min. Refuge Space	X		
2.14 Code Data Plate		5.4 Normal Terminal Stopping Devices	X		
2.30 Hydraulic Power Unit		5.5 Traveling Cables	X		
2.31 Relief Valves		5.6 Governor Rope Tension Device			×
2.32 Control Valve		5.7 Car Frame & Platform	X		
2.33 Tanks		5.8 Car Safeties & Guiding Members	X		
		5.11 Plunger & Cylinder	X		
2.34 Flexible Hydraulic Hose & Fittings		5.11 Fluiger & Cyllider			
2.34 Flexible Hydraulic Hose & Fittings 2.35 Supply Line & Shutoff Valves		5.12 Car Buffer	X		
2.35 Supply Line & Shutoff Valves 2.36 Hydraulic Cylinders		5.12 Car Buffer 5.13 Guiding Member	X		
2.35 Supply Line & Shutoff Valves		5.12 Car Buffer	X		

3. Elevator - Top of Car 3.1 Top-of-Car Stop Switch 3.2 Car Top Light & Outlet 3.3 Top-of-Car Operating Device 3.4 Top-of-Car Clearance & Refuge Space 3.5 Hormal Terminal Stopping Device 3.6 Final & Emergency Terminal Stopping Device 3.7 Car Leveling & Anticreep Devices 3.8 Top Emergency Exits 3.9 Floor & Emergency Identification #'s 3.10 Holstway Construction		6. Elevator - FireFighter's Service 6.1 A17.1b -1973 through A17.1b-1980 6.2 A17.1-1983 through A17.1b-1983 6.3 A17.1-1984 through A17.1a-1988 & A17.3 6.4 A17.1b-1989 through A17.1d-2000	X
500 February Control (1900 February Control (20	
COMMENTS: PAS	SED All Items Co	omplete	
1. Provide 5fc illumination in cab 2.14.7.1.3 (LM) Comp			
2. Replace missing screws in COP and Provide it be flu	ish with cab 2.14.1.2.4(a) (LM) Complete	
3. Clean pit and hoistway rails, brackets etc A17.2-5.1 (I	LM) Complete	V. 100 St. 100 St.	
4. Provide all hoistway doors be self closing A17.2-4.2	(LM) Complete		
5. Provide all fans in car ventilation fan assembly to we	ork A17.2-1.14 (LM) Cor	nplete	
6. Provide battery back up for car ventilation fan to wo	rk 2.14.2.3.2 (LM) Comp	plete	
7. Adjust top car guide rollers A17.2-3.18 (LM) Complete	te		
8. Replace belt on rear car door operator A17.2-3.17 (L	M) Complete		
9. Clean up machine room and remove all unrelated ite	ms A17.2-2.5 (LM) Con	nplete	
10. Provide compliant fire extinguisher (LM) Complete			
11. Provide updated fire service log 8.6.10.1 (LM) Comp	olete		
7-			
<u> </u>			
Pressures: Working/Full Empty Static	Relief		



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¹ The rail transit agency must provide WMSC with the necessary evidence (e.g. maintenance work order system records, photos, documentation, records, data, or other evidence) to close out the Remedial Action. Closeout of Remedial Actions may also be subject to ongoing WMSC verification inspections to ensure corrections are sufficient and effective.

Inspector in Charge - Signature		Date
		09/25/2020
Inspector in Charge – Name	Inspection Team	•
Manuel Lopez	Manuel Lopez	

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