



Inspection Form

Form WMSC-IR-1

Washington Metrorail Safety Commission

Agency/Department Information

Inspection Date	YYYY	MM	DD	Report Number	20201218-WMSC-MAL-1		
	2020	12	18				
Rail Agency Name	Washington Metropolitan Area Transit Authority			Rail Agency Department	ELES	Sub- Department	Metro Center
Rail Agency Department Contact Information	Name		Email		Office Phone		Mobile Phone
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
Inspection Location	Metro Center – A01 607 13th St NW, Washington, DC 20005						

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 Required¹	No					
Recommended Reinspection	No					

Activity Summaries

Inspection Activity #	1	Inspection Subject	Virtual Inspection				Activity Code		VT	WI	PI
Job Briefing Employee Name/Title	WMATA Inspection			Accompanied Inspector?	N/A	Out Brief Conducted	N/A	Time	Virtual	Outside Shift	No
Related Reports	N/A			Related CAPS / Findings							
Related Rules, SOPs, Standards, or Other	Ref		Rule or SOP		Standard		Other / Title		Checklist Reference		
	Metrorail Safety Rules and Procedures Handbook (MSRPH). Section 4– Safety Rules										
Inspection Location	Main Track	Yard	Station	OCC	RTA Facility	WMSC Office	Track Type	At-grade	Tunnel	Elevated	N/A
			X								X
Line(s)	A01	Track Number	N/A	Chain Marker and/or Station(s)			From		To		
							N/A		N/A		
Vehicles	Head Car Number		Number of Cars		Equipment		N/A				
	N/A		N/A								



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Description	<p>WMSC Inspector conducted a virtual rules compliance inspection of WMATA's Metro Center on the Red Line. The inspector requested numerous documents from daily activities performed at this facility for compliance with Metrorail Safety Rules and Procedures Handbook (MSRPH), as well as equipment maintenance activities, incidents, and documentation.</p> <p>General Information:</p> <ul style="list-style-type: none"> o WMSC's inspector requested and received several documents from the WMATA's Elevator/Escalator Department (ELES). <p>The following documents were reviewed: <u>ELES Escalators Periodic Maintenance (PM) Check Sheets</u></p> <ul style="list-style-type: none"> o Escalators PM check Sheets at the Metro Center Station were reviewed, and the following information is provided. o The PM check sheets list pass/fail criteria for the escalator comb plate impact device settings. The escalator comb plate impact devices need to be adjusted as follows. <ul style="list-style-type: none"> (a) Verify vertical settings range is: 140 - 150 lbs. (b) Verify horizontal settings range is: 300 - 400 lbs. horizontal, and (c) Verify center horizontal settings range is: 600 - 800 lbs. o Measurements were taken of these impact devices during actual field measurements as listed in the PM Check Sheets. The measurements fall short of the requirements listed on the PM Check sheets, especially the vertical and center horizontal impact loads. See Attachments #1 and #2. The impact load measurement for the bottom vertical device was measured as 130 lbs. but the requirements need to be within the range of 140 to 150 lbs. The impact load measurement for the top vertical device was measured as 120 lbs. but the requirements need to be within the range of 140 to 150 lbs. The impact load measurement for the top center device was measured as 500 lbs. but the requirements need to be within the range of 600 to 800 lbs. See actual measurements below. <p style="margin-left: 20px;">BV: <u>130</u>, BR: 400, BL: 400, BC: 630 TV: <u>120</u>, TR: 380, TL: 320, TC: <u>500</u></p> <p>ELES is requested to verify the correct load settings range in PM Check Sheets for the type of escalator that is being inspected, and implement corrective actions, as required.</p>	Number of Defects	1
		Recommended Finding?	No
		Remedial Action Required?	No
		Recommended Reinspection?	No
Remedial Action	N/A		
Effective Practices	<p>Effective Practices</p> <ul style="list-style-type: none"> • ELES's team was very supportive. 		

Photos:
















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Attachment 1 – List ELES Escalators PM Check Sheets at Metro Center

 A01E01 ESC 9.10.2020	10/9/2020 8:32 AM
 A01E02 ESC 8.19.2020	10/9/2020 8:44 AM
 A01E03 ESC 9.27.2020	10/5/2020 7:56 AM
 A01E04 ESC 9.14.2020	10/9/2020 8:32 AM
 A01E05 ESC 09.21.2020	9/22/2020 7:52 AM
 A01E06 ESC 9.17.2020	10/9/2020 8:32 AM
 A01E07 ESC 09.21.2020	9/22/2020 7:53 AM
 A01W01 ESC 09.3.2020	9/21/2020 7:59 AM
 A01W02 ESC 09.3.2020	9/21/2020 8:01 AM
 A01W03 ESC 09.7.2020	9/21/2020 8:02 AM
 A01W04 ESC 09.8.2020	9/21/2020 8:03 AM
 A01W05 ESC 09.2.2020	9/21/2020 8:04 AM
 A01W06 ESC 09.8.2020	9/21/2020 8:05 AM



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Attachment 2 – ELES Escalators PM Check Sheet A01E03 ESC of 9/27/2020

Escalator PM Check Sheet		FSVT			
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY		Office of Elevators & Escalators Services			
STATION NAME: METRO CENTER		Mezz#: 19		UNIT ID#: A01E03 ESC	
PM TYPE	WORK ORDER #	DATE/TIME STARTED	DATE / TIME COMPLETED	TOTAL HOURS	
B	15777274	9/27/20 2100	9/27/20 0000	3.0	
ITEM	PROCEDURE DETAILS	OK	NG	NA	COMMENTS
A-Level (Item 1-11)					
1	Perform/Review Job Hazard Analysis (JHA)	●			
2	Signage: (a) Inspect signage, replace as needed.	●			
3	Exterior Panel System: (a) Check/Correct gaps exceeding 1/8" on balustrades, light frames, H/R decking, skirt decking. Check if proper hardware installed and make sure all are tight.	●			
4	Skirt Brushes: (a) Check if it is properly secured. Secure/replace as needed.	●			
5	Lighting Fixtures: (a) Visually check for required illumination, (b) Clean lenses or re-lamp as needed.	●			
6	Key Switches: Check for proper operation. Key switches must return to neutral position when released. Repair/replace as needed.	●			
7	Bearing Plates: (a) Check for even flt, tripping hazards, missing screws, gaps. (b) Open PLNT ticket for nonskid material repair.	●			
8	Complate Assembly: Inspect and correct for (a) Proper penetration, (b) Damaged and/or sharp teeth, (c) Proper end cuts, (d) Clearance of end plate to skirt.	●			
9	Step Assembly: Walk steps, (a) Check for worn/broken demarcations, (b) Check for sharp/broken tread boards. Repair/replace as needed.	●			
10	Hand Rail: (a) Check for smooth operation, tension, (Ensure each handrail is moving at the same speed as the steps), (b) Check for excessive wear/damage.	●			
11	Brake(s): (a) Inspect for wear and ensure there is no oil. (b) Torque brakes (schedule replacements if below 30 ft-lbs, replace now if below 70 ft-lbs.)	●			DU1BR: 180, DU2BR: 157,DU3BR: DU4BR: ,DU5BR: , DU6BR: ,
B-Level (Item 1-22)					
12	Hand Rail Bell: Check/adjust for proper audible and shut off time. Repair/replace damaged parts as needed.	●			
13	Hand Rail Drive Assembly: (a) Visually inspect for wear/damage to drive, belt, chains. (b) Lubricate and clean rollers, chains and belts.	●			
14	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 as needed.	●			
15	Comb Impact Device: (a) Verify settings are: 140 - 150 lbs. vertical, (b) 300 - 400 lbs. horizontal, and (c) 600 - 800 lbs. center horizontal. Document the readings.	●			BV: 150, BR: 400, BL: 400, BC: 600 TV: 150, TR: 380, TL: 350, TC: 500
16	Roller Tracking Assembly: (a) Visually Check all steps, axle, horizontal guide rollers. (b) Check turnaround for proper clearances, (c) Check track at landing areas for misadjustment, broken welds and wears	●			
17	Step To Skirt Clearance: (a) Check/adjust the clearance not to exceed 3/16" on either side.	●			
18	Pit Area Equipment: (a) Visually inspect and clean pit area and equipment, including top/bottom truss pans. (b) 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.	●			

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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
Inspector in Charge - Name	Inspection Team
Manuel Lopez	Manuel Lopez
	12/18/2020