

Inspection Form

Form WMSC-IR-1

Washington Metrorail Safety Commission

Agency/Department Information

Inspection Date	YYYY	MM	DD	Report Number	20200820-WMSC-MAL-2				
inspection Date	2020	08	20	Report Number					
Rail Agency Name	Washington Metropolitan Area T Authority		Area Transit	Rail Agency Department	CMNT	CMNT Sub- Department		Greenbelt Building H	
	Name			Email	Office Phone		Mobile Phone		
Rail Agency Department									
Contact Information									
	Greenbelt Commissioning Facility – Building H, E99								
Inspection Location	5801 Sunnyside Ave,								
	College Par	k, MD 20740)						

Inspection Summary

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

Activity Summaries

Inspection Activity #	1	Inspec	ction Sub	ject	Virt	ual inspec	tion				Activity Co	ode	VN	1	WI	PI
Job Briefing Employee Name/Title	WMATA Inspection			Accompanied Inspector?		N/A	Out Brief Conducted	N/A	Time	Virtu	ual	Outside Shift	No			
Related Reports	N/A	N/A				Rela	Related CAPS / Findings									
	Ref				Rule	or SOP			Standard		Other / T	itle		Checklist Reference		rence
Related Rules, SOPs, Standards, or Other	MetroRail Safety Rules and Procedures Handbook (MSRPH). Section 4– Safety Rules.															
	Mai Trac		Yard	Stat	tion	осс	1	RTA icility	WMSC Office	T	At-grade	e Tu	nnel	Ele	evated	N/A
Inspection Location			X							Track Type						х
line(a)	E99		Track		N/	^	Chain Marker and/or Station(s)		From				То			
Line(s)	E99		Numb	er	N/A	4			ation(s)	N/A	N/A N/					
	Hea	ıd Car N	lumber		Numb	er of Cars										
Vehicles		N/A				N/A		Equipment		N/A						

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		Number of Defects	2
	The WMSC Inspector conducted a virtual rules compliance inspection of the	Recommended Finding?	No
	Greenbelt Commissioning Facility, Building H. The inspector requested numerous		No
Description	documents from daily activities performed at this facility for compliance with Metrorail Safety Rules and Procedures Handbook (MSRPH), as well as equipment maintenance activities, special tools, and documentation. The following documents were reviewed: CENV Incident Reports from the Last 12 Months 20200713 Reviewed CENV's incidents reports from the last 12 months and the following information is provided (See Attachment #1). There is no tracking mechanism to show how lessons learned from incidents are being tracked or communicated to other departments to prevent similar incidents from re-occurring. CENV is requested to implement a process to track incidents by type and communicate this information to other departments to determine if these incidents can be prevented. Item 91 – 7K train loss shunt on the Silver Line on 11-14-2019. CENV's incident report states "that Investigation is ongoing, test to be performed with ATC department". The report does not provide a status of the investigation such as, whether the test with the ATC department was completed at this time. Please provide WMSC with an updated CENV's incident report to include status of this incident. Please provide WMSC with a copy of CENV's and ATC's departments collaborated tests performed and test results of this investigation. CENV's last twenty (20) completed engineering requests. Reviewed CENV's list of last twenty (20) completed engineering requests and the following information is provided. The last twenty (20) completed engineering request has been completed after 2014, or in over six (6) years, which is unacceptable. CENV is requested to implement a corrective action to ensure engineering requests are being assigned to engineers, tracked, and completed to meet the customer's timeline. CENV is requested to provide WMSC with a list and the status of engineering requests submitted and assigned to engineers over the last two years. Please provide a copy of each engineering requests and the following information is provided (See Attachment	Recommended Reinspection?	No
Remedial Action	N/A		
Effective Practices	effective Practices o Collaborating with other departments and tracking lessons learned is an experience of the collaboration of the c	xcellent approach to reduce railcar i	ncidents.

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Attachment 1 – CENV Incident Reports from the Last 12 Months

Incident #	Date of Incident	Incident Description	Train ID	Cars in the consist	Location and track	Affected Cars
89	11/12/2019	Train Overran Twinbrook Station	113	L - 6042/6043 - 6173/6172 - 6159/6158 - T	Twinbrook Station	6029
90	11/14/2019	Train overspeeding while passing personnel on	514	L 7602-03+7489-88+7426-27+7683-82 T	Naylor Rd Station	7062
91	11/14/2019	Train Loss of Shunt on silver line	607	7540-7541.7679-7678.7500-7501.7665-7664	Different N line locations	All
92	11/17/2019	Train overran Red Signal	607	L7526-27X7407-06X7474-75X7631X30T	G98-32 signal	7526
93	11/18/2019	Costumer fell between cars while walking trhough the buklkead doors	505	L7470-71x7517-16x7636-37x7541-40T	N/A	7636-7637
94	11/18/2019	Train overran Naylor Road Station	512	L – 7414/7415 x 7559/7558 x 7604/7605 x 7673/7672 x – T	Naylor Road Station, Track # 1	7424
95	11/20/2019	Train speed past mobile workers crew	610	L - 7444/7445 - 7649/7648 - 7664/7665 - 7567/7566 - T	G1-575+00	7444

Briefly investigation results	Comments/Recommendations	Cause of incident
The data shows that when the train was traveling at approximately 54 mph and 2500 feet before entering Twinbrook Station platform, the MC was placed into B4 brake rate and the trucks wheels start to slide (wheels losing adhesion to the tracks), followed by the truck wheel slide control activation.	The train was entering the station platform at about 32 mph with Master Controller still in B4 brake rate application, when the train passed the 1st F4 marker the MC emergency brake was applied. The train passed the 2nd F4 marker at about 25 mph and stopped at approximately 200 feet passed the platform 8 car mark	Train Operator
The train passed the workers at about 14 mph. The limited speed is 15 mph.	No anomalies were found related to the train performance	NTF
So far we did wheel concentricity check on four cars: 7678/79 and 7500/01. All wheels on 7678/79 are found out of round and Wheels 1 and 2 on 7500 are found out of round. No defect is found on 7501	Investigation on going, test to be performed with ATC department	TBD
This stop and proceed process covered a total distance of 18.733 feet as calculated from the distance signal. Train id 607 responded as commanded and no indications of train malfunction. The videos were uploaded in the share drive.		NTF
The data does not show train issues at any time when the incident was reported. The requested videos were uploaded in the share drive for SAFE to review.	No comments	Customer issue
The data shows that the front of the train passed the end of the platform at a speed of 9.56 mph with the MC in EMERGENCY position. The train stopped at about 75 feet paste the 8 car mark. Wheel slide conditions were detected and contributed to increase the stop distance.	CENV recommended to check the consist for flats as well as MC operations.	Track/weather conditio
Train data shows that the train was moving at approximately 27 mph when the lead car was passing the reported location, the Master Controller positon was in between P1.P4. No road horn was activated. The train was expedig	The data does not show train perfromance anomalies at the time of the reported incident. CMNT verified the good Road Horn operation.	Train Operator

Attachment 2 – CENV's Open Critical Engineering Requests

#	ER#	Title	Car Serier	System
1	ER 1707013	6K HVAC Temperature Control card failures	6K	HVAC
2	ER 1909022	6K Door Threshold Heater	6K	Propulsion
3	ER 1910025	2K-3K Legacy Fleet Hand Brake Application	2-3K	Brakes
4	ER 1912029	7K Removal Seal on White Light ACK Switch	7K	Lighting
5	ER 2001005	Solid State Relay used on the 6K HVAC	6K	HVAC
6	ER 2003012	(7K Stanchion Failure	7K	Carbody
7	ER 2000601	7K Master Controller (MP) Dial Overlay Damage	7K	ATC

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 08/20/2020
Inspector in Charge – Name	Inspection Team	
Manuel Lopez	Manuel Lopez	

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