

Inspection Form

Form WMSC-IR-1

Washington Metrorail Safety Commission

Agency/Department Information

Insuration Date	YYYY/MM/DD	Davis and Marris have	20240522-WMSC-MAL-1					
Inspection Date	2024/05/25	Report Number						
Rail Agency Name	Washington Metropolitan Area Transit Authority	Rail Agency Department	Name					
Rail Agency Department	CMNT Contact Information							
Inspection Location	Brentwood S&I Shop - Railyard B99 601 T Street NE Washington DC 20002							

Inspection Summary

Inspection Activity #	1
Activity Code	VM-WI-PI
Inspection Units	1
Inspection Subunits	1
Defects (Number)	1
Recommended Finding	Yes
Remedial Action Required ¹	No
Recommended Reinspection	No

Activity Summaries

MATA Inspection Accompanied Inspector? Yes Conducted Yes Time 07:30 AM Shift	Employee Name/Title Related Reports Related Rules, SOPs, Standards, or Other	ks N/A Ref METRORAIL OP RULEBOOK FIRE Effective: Sept				ied Inspecto	or?	.,	Out Brief							-WI-PI		
Ref Related Rules, SOPs, Standards, or Other REFORALL OPERATING RULEBOOK FIRST EDITION Effective: Sept 1, 2023, Safety Rules Main Track Yard Station CCC RTA Facility MMSC Office Track Type At-grade Tunnel Elevated Tunnel Elevated Tunnel To Street NE Washington DC 20002 Tation(s) WMSC N/A WMSC Inspectors conducted a rules compliance inspection of the wheelset replacement process and the start of the SMP process at the Brentwood S&I shop. MRSC met with personnel from the CMNT inspection Office, truck shop, and quality assurance. The following observations were noted. The 7K Wheelset Replacement Process (WRP). Observed a successful 7K wheel pressing process. The number of misfits has improved and is down to only 20%. Misfits occur when the wheel pressing process does not achieve the wheels required press tonnage of 80-120 tons. It was stated that Brentwood's wheel pressing machine is having successes with an interference fit of 6.7 mills between the wheels bore and axles. MSI 000005 requires an linterference fit of 6.7 mills between the wheels bore and axles. MSI 000005 requires an linterference fit of 6.7 mills between the wheels bore and axles. MSI 000005 requires an linterference fit of 6.7 mills between the wheels bore and axles. MSI 000005 requires an	Related Rules, SOPs, Standards, or Other	Ref METRORAIL OP RULEBOOK FIRS Effective: Sept	FRATING		Dalata d CA	ccompanied Inspector?			Yes Time			1 07·30 AM 1		Outside Shift	No			
Related Rules, SOPs, Standards, or Other METRORAIL OPERATING RULEBOOK FIRST EDITION Effective: Sept 1, 2023, Safety Rules Inspection Location Main Track Yard Station OCC RTA Facility WMSC Office Track Type Brentwood S&I Shop - Railyard B99 601 T Street NE Washington DC 20002 Station(s) Which Street NE Washington DC 20002 The Wind Some Station of the Wheelset Replacement process and the start of the SMP process at the Brentwood S&I Shop in compliance with the Metrorail Operating Rules and Procedures Handbook (MOR), including Preventive Maintenance Inspections (PI) activities. General Information: Conducted an observation of the wheelset replacement process and the start of the SMP process and the start of the S	SOPs, Standards, or Other	METRORAIL OP RULEBOOK FIRS Effective: Sept	FRATING		Related CA	NPS / Findin	gs		N/A									
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Line(s) & Track Number Street NE Washington DC 20002 Station(s) To Street NE Washington DC 20002 Station(s) N/A N/				Station	OCC	RTA Fa	acility		Track Type	At-g	rade	Tunne	el	Elevated N/A				
Number Street NE Washington DC 20002 Station(s) N/A N/A	Line(s) & Track	Rrentwood S&I		ailvard B99	601 T	Chain Ma	rker and/o	nr		From	1							
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the journal bearing and the housing to prevent damage to either the truck journal bearing and housing unit when the railcar is lifted by the jacking pads. Unlike the legacy fleet where the journal bearing is captured by the housing unit, on 7K railcars, the journal bearing is not captured by the housing, and there is an approximate half an inch play. The spacer prevents the wheelset assembly from dropping half an inch from the housing when the railcar is lifted by the jacking pads. This is an area of concern that needs to be investigated further as a potential contributor to wheels out of round. See Attached Photos #1 and #2 Spacers are also being used around the secondary suspension leveling mechanism when the railcar is lifted by the jacking pads. See Attached Photo #3 Defect #1 - Observed a truck with the center pin bolster bushing slid out of place by approximately Â% of an inch above top of the truck surface. This truck needs an EMI implemented to install a new ring retainer to prevent the bushing from sliding out of place. ETR 140114 Installation of Ring Retainer for Bolster Bushing was completed, and EMI 140443 is being developed to install a new support plate.	Description	the Metrorail of Maintenance I observation of Brentwood S& shop, and qua Replacement P number of mis pressing proce was stated tha interference fit interference fit interference fit the journal bearing and hot leave the journal bearing play. The space housing when needs to be in Attached Photo suspension truleveling mecha - Defect #1 - Capproximately implemented to the suspension to the suspension truleveling mecha - Defect #1 - Capproximately implemented to the suspension to the suspension truleveling mecha - Defect #1 - Capproximately implemented to the suspension to the suspension truleveling mecha - Defect #1 - Capproximately implemented to the suspension to the suspension truleveling mecha - Defect #1 - Capproximately implemented to the suspension to the suspension truleveling mechanics - Defect #1 - Capproximately implemented to the suspension to the suspens	Recommended Finding? Recommended Finding? Recommended Finding? Remedial Action Required? Remedial Action Required?						Ye No	0								

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.



Inspection Form

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Washington Metrorail Safety Commission

Inspector in Charge's Signature		Date 2024/05/25
Inspector in Charge's Name	Inspection Team	
Manuel Lopez	Paul Smith	