



## Inspection Form

**Form WMSC-IR-1**

Washington Metrorail Safety Commission

**Agency/Department Information**

<b>Inspection Date</b>	YYYY/MM/DD 2024/02/02	<b>Report Number</b>	20240125-WMSC-MAL-1
<b>Rail Agency Name</b>	Washington Metropolitan Area Transit Authority	<b>Rail Agency Department</b>	Name
<b>Rail Agency Department</b>	CMNT	<b>Contact Information</b>	
<b>Inspection Location</b>	Dulles Railyard, N99 44259 Old Ox Road Dulles, VA 20166		

**Inspection Summary**

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

**Activity Summaries**

<b>Inspection Activity #</b>	1	<b>Inspection Subject</b>	Observation 7K Wheelset Assembly Process				<b>Activity Code</b>	VM-WI-PI			
<b>Job Briefing Employee Name/Title</b>	WMATA Inspection	<b>Accompanied Inspector?</b>	No		<b>Out Brief Conducted</b>	Yes	<b>Time</b>		<b>Outside Shift</b>	No	
<b>Related Reports</b>	N/A	<b>Related CAPS / Findings</b>			N/A						
<b>Related Rules, SOPs, Standards, or Other</b>	Ref	Rule or SOP			Standard		Other / Title		Checklist Reference		
	METRORAIL OPERATING RULEBOOK FIRST EDITION Effective: Sept 1, 2023, Safety Rules	N/A			N/A		N/A		N/A		
<b>Inspection Location</b>	Main Track	Yard	Station	OCC	RTA Facility	WMSC Office	<b>Track Type</b>	At-grade	Tunnel	Elevated	N/A
		X									
<b>Line(s) &amp; Track Number</b>	Dulles Railyard, N99 44259 Old Ox Road Dulles, VA 20166			<b>Chain Marker and/or Station(s)</b>		From			To		
						N/A			N/A		
<b>Vehicles</b>	<b>Head Car Number</b>		<b>Number of Cars</b>		<b>Equipment</b>		N/A				
	N/A		N/A								
<b>Description</b>	<p>WMSC Inspector conducted a rules compliance inspection of the wheelset assembly process at the Greenbelt S&amp;I Shop for compliance with the Metrorail Operating Rules and Procedures Handbook (MOR), including Preventive Maintenance Inspections (PI) activities. General Information: Conducted an observation of the wheel boring and pressing process at the Dulles S&amp;I shop. WMSC met with personnel from the CMNT Inspection Office, PI shop, truck shop, and CMOR quality assurance. The following observations were noted. Dulles S&amp;I shop is preparing for the Scheduled Maintenance program (SMP). There is a lot of activity inside the S&amp;I Shop. Gearboxes and trucks are being overhauled in-house. An Engineering modification is being implemented to add a retainer for the truck center pin bushing during the truck overhaul process. Dulles receives overhauled traction motors from Greenbelt. Truck shop personnel stated that the Phoenix wheel boring machine at Dulles is currently not operational due to the lack of parts. Wheels are currently being bored by the Okuma wheel boring machine at Greenbelt and shipped to Dulles and Brentwood for the wheelset assembly and truck overhaul process. See Attached Photos #1, #2, and #3. Defect#1- The SMP needs to maintain a float of spare parts to keep the wheel boring and wheel press machines operational. The Phoenix wheel boring machine at Dulles can only bore four consecutive wheels before the machine gets out of tolerance. This boring machine is designed to have a boring capacity of 12 consecutive wheels without any adjustments.</p>								<b>Number of Defects</b>		1
									<b>Recommended Finding?</b>		Yes
									<b>Remedial Action Required?</b>		No
									<b>Recommended Reinspection?</b>		No
<b>Remedial Action</b>											

<sup>1</sup> 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.

<b>Inspector in Charge's Signature</b>	<b>Date</b> 2024/02/02
<b>Inspector in Charge's Name</b> Manuel Lopez	<b>Inspection Team</b> N/A

# Inspection Report 20240131-WMSC-CMNT- MAL-1 Attachments - Dulles

Wheels are currently being bored by the Okuma wheel boring machine at the Greenbelt Truck Shop and shipped to Dulles and Brentwood for the wheelset assembly and truck overhaul process.



The high interference fit, and low lubrication process is causing new wheels and axles to get damaged during the de-mounting process.

