



## Inspection Form

**Form WMSC-IR-1**

Washington Metrorail Safety Commission

**Agency/Department Information**

<b>Inspection Date</b>	YYYY/MM/DD 2024/03/27	<b>Report Number</b>	20240321-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>	Greenbelt MRO Shop - Railyard E99 5801 Sunnyside Ave, College Park, MD 20740		

**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>	On-site Observation				<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>	10:00 AM	<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>	Greenbelt MRO Shop - Railyard E99 5801 Sunnyside Ave, College Park, MD 20740			<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 an inspection rules compliance inspection of the 7K traction motors overhaul process at the Greenbelt MRO 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 7K railcars traction motors overhaul process at the Greenbelt MRO shop. WMSC met with personnel from the CMNT truck shop and CENV engineering. The following observations were noted. Defect #1 - Stopped by the Greenbelt MRO shop to oversee the traction motor overhaul process and ran into CENV engineering while investigating a recent increase in 7K traction motors electrical shorts in the motor windings. See Attachment #1, Traction Motors Reliability Report from REPA. CENV is investigating the improper baking process of the motor winding coating during manufacturing process as a possible cause for the failures. The following information is being investigated. The traction motors are having electrical shorts in the windings due to improper baking of the protective coating. This issue was identified back in 2016 but it was resolved. Need to determine a number count of traction motors that have this issue. CENV is investigating this issue with Toshiba to determine the responsible party. Toshiba indicated that if the motors were overhauled by WMATA, they would claim no responsibility. Need a follow-up with this investigation. The attached photos show traction motors with a white tape indicating that they have an electrical short. See Attachment #2. Will add this item to the next Railcar Bi-weekly Meeting agenda.</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> 2024/03/27
<b>Inspector in Charge's Name</b> Manuel Lopez	<b>Inspection Team</b> N/A