



## Inspection Form

**Form WMSC-IR-1**

Washington Metrorail Safety Commission

**Agency/Department Information**

<b>Inspection Date</b>	YYYY	MM	DD	<b>Report Number</b>	20200803-WMSC-MAL-1		
	2020	08	03				
<b>Rail Agency Name</b>	Washington Metropolitan Area Transit Authority			<b>Rail Agency Department</b>	CMNT	<b>Sub-Department</b>	Alexandria and Yard
<b>Rail Agency Department Contact Information</b>	<b>Name</b>		<b>Email</b>		<b>Office Phone</b>		<b>Mobile Phone</b>
	██████████ ██████████		██████████ ██████████		██████████ ██████████		██████████ ██████████
<b>Inspection Location</b>	Alexandria S&I Shop - Railyard C99 3201 Eisenhower Avenue Alexandria VA 22314						

**Inspection Summary**

Inspection Activity #	1	2	3	4	5	6
<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>	No					
<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>					Virtual Shop / Yard Inspection			<b>Activity Code</b>			VM	WI	PI
<b>Job Briefing Employee Name/Title</b>	WMATA Inspection				<b>Accompanied Inspector?</b>	N/A	<b>Out Brief Conducted</b>	N/A	<b>Time</b>	Virtual	<b>Outside Shift</b>	No			
<b>Related Reports</b>	N/A				<b>Related CAPS / Findings</b>										
<b>Related Rules, SOPs, Standards, or Other</b>	<b>Ref</b>		<b>Rule or SOP</b>		<b>Standard</b>			<b>Other / Title</b>			<b>Checklist Reference</b>				
	MetroRail Safety Rules and Procedures Handbook (MSRPH). Section 4– Safety Rules														
<b>Inspection Location</b>	<b>Main Track</b>	<b>Yard</b>	<b>Station</b>	<b>OCC</b>	<b>RTA Facility</b>	<b>WMSC Office</b>	<b>Track Type</b>	<b>At-grade</b>	<b>Tunnel</b>	<b>Elevated</b>	<b>N/A</b>				
		X										X			
<b>Line(s)</b>	C99		<b>Track Number</b>	N/A		<b>Chain Marker and/or Station(s)</b>		<b>From</b>			<b>To</b>				
								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												



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<b>Description</b>	<p>WMSC Inspector conducted a virtual rules compliance inspection of the Alexandria Shops, and Yard Facilities. The inspector requested numerous documents from daily activities performed at the Shop and yard for compliance with Metrorail Safety Rules and Procedures Handbook (MSRPH), as well as equipment maintenance activities, special tools, and documentation.</p> <p>General Information:</p> <ul style="list-style-type: none"> <li>○ WMSC’s inspector requested and received several documents from the Alexandria facility.</li> <li>○ WMSC will address Alexandria’s facility concerns at the next CMNT/CENV Zoom meeting.</li> </ul> <p>The following documents were reviewed:  <u>CMNT Daily Shop Safety Inspection &amp; Housekeeping Checklist for July 15, 16, and 17-2020</u></p> <ul style="list-style-type: none"> <li>○ Reviewed CMNT’s Daily Shop Safety Inspection &amp; Housekeeping Checklist (see Attachment #1).</li> <li>○ This document clearly identifies safety deficiencies found in the shops and yard and identifies what action needs to be taken, and the status. One safety deficiency was found, a spray bottle had no safety label. This deficiency was listed as unsatisfactory on the checklist and it was corrected on the same day.</li> </ul> <p><u>Periodic Inspections (PIs) Type A for railcars 7426-27 was completed on 7-16, Type C for railcars 7030-31 was completed on 7-17 Type B for railcars 7438-39 was completed on 7-16 and Type B for railcars 7272-73 was completed on 7-19-2020.</u></p> <ul style="list-style-type: none"> <li>○ Reviewed PIs Type A, B, and C data for railcars 7426-27, 7030-31, 7438-39, and 7272-73 and the following information is provided.</li> <li>○ These tasks were presented in electronic format displaying the data measured on the railcar, correction made, and the pass/fail criteria. Data measured from the railcars stayed within the required minimum and maximum values.</li> </ul> <p><u>Special Tools List</u></p> <ul style="list-style-type: none"> <li>○ Reviewed the special tools list and the following comments are provided: There are many special tools missing that are needed to conduct Periodic Inspections on 2K3K, 6K, and 7K railcars.</li> <li>○ Special tools listed in Attachment #2 are needed to conduct Periodic Inspections on 2K3K, 6K, and 7K railcars at the Alexandria facility.</li> </ul> <p><u>Safety Committee Safety Concern Open Items List at Alexandria.</u></p> <ul style="list-style-type: none"> <li>○ WMATA’s has a safety committee meets monthly to address railcars, equipment, and facilities issues. This committee prepares a spreadsheet to track the status of open items, expected completion date, and responsible party.</li> </ul>	<b>Number of Defects</b>	1
		<b>Recommended Finding?</b>	No
		<b>Remedial Action Required?</b>	No
		<b>Recommended Reinspection?</b>	No
<b>Remedial Action</b>	N/A		
<b>Effective Practices</b>	<p>Effective Practices</p> <ul style="list-style-type: none"> <li>○ The documents provided depict that the Alexandria facility is a well-organized and managed facility. These documents clearly describe processes, identifies issues, safety concerns, and action that needs be taken to mitigate the safety concern.</li> </ul>		

Photos:



# Inspection Form

# Form WMSC-IR-1

Washington Metrorail Safety Commission

Attachment 1 – CMNT Daily Shop Safety Inspection & Housekeeping Checklist at Alexandria Facility.

**CMNT Daily Shop Safety Inspection & Housekeeping Checklist**

Date Inspected: Jul 15, 2020 Inspected by: \_\_\_\_\_

AL S&I	BA S&I	BW S&I	GB S&I	GB T&M	GB Annex	GB Paint Booth
NC S&I	SG S&I	WFC S&I	WFC Annex			

Place an "S" = Satisfactory or "U" = Unsatisfactory inspection finding next to each area. Notes / Comments are encouraged where helpful. Notes / Comments are required for any Unsatisfactory mark. Must include details and corrective action(s).

Exterior Areas of Building			
Housekeeping	S	Shop Aprons / Leads	S
Hazardous Waste Storage	S	Cigarette Butt Containers	S
Fire Lanes / Parking	S	Lighting	S
Sidewalks	S	Dumpsters / Trash Cans	S
NOTES / COMMENT			
Shop Floor			
Housekeeping	S	Overhead Doors	S
Housekeeping - Floor	S	Exit Doors	S
Power Boxes	S	Oil Room	S
Stingers	S	Wheel Lathe	S
Drop Lights / Extension Cords	S	Walkways	S
Lighting	S	Blow Pit	S
Used Oil Storage	S	Used Part Tag & Storage	S
Eyewash Stations	S	Lockout / Tagout	S
Equipment Tag	S	Train Lifts	S
Blue Flag / SOP 12	U	Flammable Cabinets	S
Food Prep Equipment	S	Bottle Labeling	S
NOTES / COMMENT			
Blue Flag/SOP 12- No blue flag protection card placed on the car (Taper addressed)			
Car Wash / Cleaning Tank / Steam Cleaning Booths			
Housekeeping	S	Walkways	S
Exit Doors	S	Appropriate PPE	S
Drains	S	Overhead Doors (if applicable)	S
NOTES / COMMENT			
Office / Administrative Areas of Building			
Housekeeping	S	Pathways / Exits	S
First Aid Kits Sealed (wherever located)	S	Storage	S
NOTES / COMMENT			

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**CMNT Daily Shop Safety Inspection & Housekeeping Checklist**

Date Inspected: Jul 16, 2020 Inspected by: \_\_\_\_\_

AL S&I	BA S&I	BW S&I	GB S&I	GB T&M	GB Annex	GB Paint Booth
NC S&I	SG S&I	WFC S&I	WFC Annex			

Place an "S" = Satisfactory or "U" = Unsatisfactory inspection finding next to each area. Notes / Comments are encouraged where helpful. Notes / Comments are required for any Unsatisfactory mark. Must include details and corrective action(s).

Exterior Areas of Building			
Housekeeping	S	Shop Aprons / Leads	S
Hazardous Waste Storage	S	Cigarette Butt Containers	S
Fire Lanes / Parking	S	Lighting	S
Sidewalks	S	Dumpsters / Trash Cans	S
NOTES / COMMENT			
Shop Floor			
Housekeeping	S	Overhead Doors	S
Housekeeping - Floor	S	Exit Doors	S
Power Boxes	S	Oil Room	S
Stingers	S	Wheel Lathe	S
Drop Lights / Extension Cords	S	Walkways	S
Lighting	S	Blow Pit	S
Used Oil Storage	S	Used Part Tag & Storage	S
Eyewash Stations	S	Lockout / Tagout	S
Equipment Tag	S	Train Lifts	S
Blue Flag / SOP 12	S	Flammable Cabinets	S
Food Prep Equipment	S	Bottle Labeling	U
NOTES / COMMENT			
Bottle Labeling-Spray Bottle had no safety label on it (Taper addressed)			
Car Wash / Cleaning Tank / Steam Cleaning Booths			
Housekeeping	S	Walkways	S
Exit Doors	S	Appropriate PPE	S
Drains	S	Overhead Doors (if applicable)	S
NOTES / COMMENT			
Office / Administrative Areas of Building			
Housekeeping	S	Pathways / Exits	S
First Aid Kits Sealed (wherever located)	S	Storage	S
NOTES / COMMENT			

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**CMNT Daily Shop Safety Inspection & Housekeeping Checklist**

Date Inspected: Jul 17, 2020 Inspected by: \_\_\_\_\_

AL S&I	BA S&I	BW S&I	GB S&I	GB T&M	GB Annex	GB Paint Booth
NC S&I	SG S&I	WFC S&I	WFC Annex			

Place an "S" = Satisfactory or "U" = Unsatisfactory inspection finding next to each area. Notes / Comments are encouraged where helpful. Notes / Comments are required for any Unsatisfactory mark. Must include details and corrective action(s).

Exterior Areas of Building			
Housekeeping	S	Shop Aprons / Leads	S
Hazardous Waste Storage	S	Cigarette Butt Containers	S
Fire Lanes / Parking	S	Lighting	S
Sidewalks	S	Dumpsters / Trash Cans	S
NOTES / COMMENT			
Shop Floor			
Housekeeping	S	Overhead Doors	S
Housekeeping - Floor	S	Exit Doors	S
Power Boxes	S	Oil Room	S
Stingers	S	Wheel Lathe	S
Drop Lights / Extension Cords	S	Walkways	S
Lighting	S	Blow Pit	S
Used Oil Storage	S	Used Part Tag & Storage	U
Eyewash Stations	S	Lockout / Tagout	S
Equipment Tag	S	Train Lifts	S
Blue Flag / SOP 12	S	Flammable Cabinets	S
Food Prep Equipment	S	Bottle Labeling	S
NOTES / COMMENT			
Used Part Tag & Storage- Seats and Fire extinguishers in the basement need to be delivered			
Car Wash / Cleaning Tank / Steam Cleaning Booths			
Housekeeping	S	Walkways	S
Exit Doors	S	Appropriate PPE	S
Drains	S	Overhead Doors (if applicable)	S
NOTES / COMMENT			
Office / Administrative Areas of Building			
Housekeeping	S	Pathways / Exits	S
First Aid Kits Sealed (wherever located)	S	Storage	S
NOTES / COMMENT			

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Attachment 2 – Missing Railcars Special Tools List at Alexandria.

CONSOLIDATED PI TOOL LIST													QTY REQUIRED			
VMATA Drawn Number	Description	7K	2K/3K	6K	AL	G	N	S	V	L	To Re	Syste Floa				
VDE000837	Brake Pad Slack Adjuster Go/No-Go Gauge	STEP 20.4.3 STEP 20.4.4		STEP 20.4.6 STEP 20.5.3	3	3	3	3	3	3	24					
VDE000634	Brake Pad Thickness Go/No-Go Gauge	STEP 20.4.4	STEP 20.5.1 - 2	STEP 20.5.2 STEP 20.5.4	2	6	6	6	4	6	30					
VDE000548	Pin Gauge Set	STEP 20.5.7 STEP 20.5.22 STEP 20.5.48	STEP 20.6.7 STEP 20.6.12 - 23	STEP 20.4.8 STEP 20.6.20 - 26 STEP 20.6.34 - 38 STEP 20.6.46 - 50	3	3	3	6	3	6	24					
WDX000295	Shoe Height Tool - 3.75"		STEP 20.22.1	STEP 20.20.2 STEP 20.21.1 - 4	0	-2	-1	1	0	3	1					
VDE000733	Shoe Height Tool - 3.5"	STEP 20.18.2 STEP 20.18.1 - 5			0	-1	-2	1	-2	3	-1					
VDE000539	Rubber Compression Condemning Limit Gauge			STEP 20.17 - 8	-3	-3	-3	0	-3	0	-12					
VDE000554	Coupler Hook Buff and Pull Go Gauge	STEP 20.31.1	STEP 20.23.1 - 3	STEP 20.28.1 - 3	3	3	1	6	3	6	22					
VDE000619	Coupler Hook Buff and Pull No-Go Gauge	STEP 20.31.2	STEP 20.23.1 - 3	STEP 20.28.1 - 3	3	3	1	6	4	6	23					
VDE000620	Coupler Hook Height w/In "No-Go"	STEP 20.31.3	STEP 20.30.2	STEP 20.23.1	3	3	3	7	2	6	24					
VDE000553	Throat Opening No-Go Gauge(Welded)	STEP 20.31.4		STEP 20.23.1 - 2	0	0	-2	3	0	3	4					
VDE000618	Throat Opening No-Go Gauge(Bolted)		STEP 20.30.2 STEP 20.31.2 STEP 20.32.2		2	3	1	2	1	3	12					
VDE000552	Guide Pin Go/No-Go Gauge	Add to Insp	STEP 20.32.2	STEP 20.31.1 - 2	0	0	0	4	0	3	7					
VDE000595	Coupler Hook Extension Tool	Add to Insp	STEP 20.23.4 - 10	STEP 20.28.4	1	0	0	3	0	3	7					
VDE000843	Handle for Electrical Couplers	STEP 30.13.3 - 6 STEP 30.8.8			3	3	3	3	3	3	18					
VDE000550	Glass Tube	STEP 30.13.3 - 6 STEP 30.8.8	STEP 30.13.5 - 6	STEP 30.14.6	-1	1	0	6	1	3	10					
VDE000111	Coupler Pin Alignment Tool		STEP 30.16.8	STEP 30.17.6	0	0	-1	3	0	3	5					
VDE000841	Armature Gap Gauge, Sécheron 4H3S2028	STEP 35.5.3 - 4 STEP 35.6.2 - 3			3	3	3	3	3	3	18					
VDE000842	Main Contact Tip Gauge, Sécheron 4H3S2029	STEP 35.5.4 - 6 STEP 35.6.4 - 5			3	3	3	3	3	3	18					
VDE000810	Line Contactor Special 0.8mm Gauge		STEP 35.5.15	STEP 35.5.15	0	0	0	2	0	3	5					
VDE000838	Dipstick Gauge		STEP 60.13 - 4	STEP 60.13 - 4	3	3	3	1	3	3	16					
VDM180173	5/8K Go/No-Go Gauge, Air Spring Height			STEP 80.16	-4	-3	-3	0	-3	0	-13					
VDM180140	Breda Air Bag Go/No-Go Gauge		STEP 80.2.1		-2	1	1	0	1	3	4					
VDE000819	7K Go/No-Go Gauge, Air Spring Height	STEP 80.16 - 11			3	3	3	3	3	3	18					
VDE000549	Threshold Height T-Square Gauge	STEP 80.18 - 10	STEP 80.11	STEP 80.18 - 10 STEP 80.21.1 - 1	1	0	0	0	1	3	5					
VDE000640	Threshold Height Reference Bar	STEP 80.18 - 10	STEP 80.11	STEP 80.18 - 10 STEP 80.21.1 - 1	-2	0	0	1	0	3	2					
VDE000398	Door Adjustment Gauge SK-07-11		STEP 30.14.4 - 17	STEP 30.14.4 - 27	-1	2	2	2	1	3	9					
VDE000382	Door Height Gauge		X	X	3	3	3	4	3	3	19					
VDE000392	Door Guide Thickness Gauge		X	X	2	3	2	2	3	3	15					
VDE000394	1mm 3mm Door Go/No Go Gauge		X	X	3	3	3	3	3	3	18					
VDE000401	Door Spindle Nut Tool		X	X	3	3	3	2	3	3	17					

CONSOLIDATED PI TOOL LIST													QTY REQUIRED			
VMATA Drawn Number	Description	7K	2K/3K	6K	AL	G	N	S	V	L	To Re	Syste Floa				
VDE000620	Coupler Hook Height w/In "No-Go"	STEP 20.31.3	STEP 20.30.2	STEP 20.23.1	3	3	3	7	2	6	24					
VDE000553	Throat Opening No-Go Gauge(Welded)	STEP 20.31.4		STEP 20.30.1 - 2	0	0	-2	3	0	3	4					
VDE000618	Throat Opening No-Go Gauge(Bolted)		STEP 20.30.2 STEP 20.31.2 STEP 20.32.2		2	3	1	2	1	3	12					
VDE000552	Guide Pin Go/No-Go Gauge	Add to Insp	STEP 20.32.2	STEP 20.31.1 - 2	0	0	0	4	0	3	7					
VDE000595	Coupler Hook Extension Tool	Add to Insp	STEP 20.23.4 - 10	STEP 20.28.4	1	0	0	3	0	3	7					
VDE000843	Handle for Electrical Couplers	STEP 30.13.3 - 6 STEP 30.8.8			3	3	3	3	3	3	18					
VDE000550	Glass Tube	STEP 30.13.3 - 6 STEP 30.8.8	STEP 30.13.5 - 6	STEP 30.14.6	-1	1	0	6	1	3	10					
VDE000111	Coupler Pin Alignment Tool		STEP 30.16.8	STEP 30.17.6	0	0	-1	3	0	3	5					
VDE000841	Armature Gap Gauge, Sécheron 4H3S2028	STEP 35.5.3 - 4 STEP 35.6.2 - 3			3	3	3	3	3	3	18					
VDE000842	Main Contact Tip Gauge, Sécheron 4H3S2029	STEP 35.5.4 - 6 STEP 35.6.4 - 5			3	3	3	3	3	3	18					
VDE000810	Line Contactor Special 0.8mm Gauge		STEP 35.5.15	STEP 35.5.15	0	0	0	2	0	3	5					
VDE000838	Dipstick Gauge		STEP 60.13 - 4	STEP 60.13 - 4	3	3	3	1	3	3	16					
VDM180173	5/8K Go/No-Go Gauge, Air Spring Height			STEP 80.16	-4	-3	-3	0	-3	0	-13					
VDM180140	Breda Air Bag Go/No-Go Gauge		STEP 80.2.1		-2	1	1	0	1	3	4					
VDE000819	7K Go/No-Go Gauge, Air Spring Height	STEP 80.16 - 11			3	3	3	3	3	3	18					
VDE000549	Threshold Height T-Square Gauge	STEP 80.18 - 10	STEP 80.11	STEP 80.18 - 10 STEP 80.21.1 - 1	1	0	0	0	1	3	5					
VDE000640	Threshold Height Reference Bar	STEP 80.18 - 10	STEP 80.11	STEP 80.18 - 10 STEP 80.21.1 - 1	-2	0	0	1	0	3	2					
VDE000398	Door Adjustment Gauge SK-07-11		STEP 30.14.4 - 17	STEP 30.14.4 - 27	-1	2	2	2	1	3	9					
VDE000382	Door Height Gauge		X	X	3	3	3	4	3	3	19					
VDE000392	Door Guide Thickness Gauge		X	X	2	3	2	2	3	3	15					
VDE000394	1mm 3mm Door Go/No Go Gauge		X	X	3	3	3	3	3	3	18					
VDE000401	Door Spindle Nut Tool		X	X	3	3	3	2	3	3	17					
VDE000403	Door 17mm Spanner Wrench		Adj	Adj	3	3	3	2	3	3	17					
VDE000406	Bulkhead Door Pivot Wrench		Adj	Adj	3	3	3	2	3	3	17					
VDE000404	Door 15mm Spanner Wrench		Adj	Adj	3	3	3	2	3	3	17					
VDE000405	Door 17.2mm Angled Wrench		Adj	Adj	3	3	3	2	3	3	17					
VDE000410	Door Jack		Adj	Adj	3	3	3	2	3	3	17					
VDE000411	Door Cam Stud Wrench		Adj	Adj	3	3	3	2	3	3	17					
VDE000408	Door Offset Spanner Wrench		Adj	Adj	3	3	3	4	3	3	19					
VDE000409	Door Lower Bump Stop Wrench		Adj	Adj	3	3	3	2	3	3	17					
VDE000818	Anti Fattle Block Gauge / Door Height Gauge	STEP 30.2.2 STEP 30.4.1			3	3	3	2	3	3	17					
VDE000817	Nose Seal Gauge	STEP 30.7.2			3	3	3	1	3	3	16					
VDE000752	Push/Pull Force Gauge Adapter	STEP 30.16.3 - 5	STEP 30.17.3 - 3 STEP 30.18.1 - 3 STEP 30.19.1 - 4	STEP 30.18.1 - 3 STEP 30.19.2 - 4	3	3	3	3	3	6	21					
VDE000388	3/8" Flat Plate Obstruction	STEP 30.13.3 - 3	STEP 30.23.2	STEP 30.23.2 - 6	5	4	3	2	3	6	23					
VDE000548	Pin Gauge Set		STEP 30.2.4	STEP 30.2.4	N/A	N/A	N/A	N/A	N/A	N/A						



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Washington Metrorail Safety Commission

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<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 - Signature</b>		<b>Date</b> 08/03/2020
<b>Inspector in Charge – Name</b> <b>Manuel Lopez</b>	<b>Inspection Team</b> <b>Manuel Lopez</b>	