



Inspection Form

Form WMSC-IR-1

Washington Metrorail Safety Commission

Agency/Department Information

Inspection Date	YYYY	MM	DD	Report Number	20200709-WMSC-MAL-1		
	2020	07	09				
Rail Agency Name	Washington Metropolitan Area Transit Authority			Rail Agency Department	CMNT	Sub- Department	Shady Grove Yard
Rail Agency Department Contact Information	Name		Email		Office Phone		Mobile Phone
	[REDACTED] [REDACTED]		[REDACTED] [REDACTED]		[REDACTED] [REDACTED]		[REDACTED] [REDACTED]
Inspection Location	Shady Grove S&I Shop - Railyard A99 15903 Somerville Drive Rockville, MD 20855						

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 Required¹	No					
Recommended Reinspection	No					

Activity Summaries

Inspection Activity #	1	Inspection Subject Virtual Shop / Yard Inspection					Activity Code		VM	WI	PI
Job Briefing Employee Name/Title	WMATA Inspection			Accompanied Inspector?	N/A	Out Brief Conducted	N/A	Time	Virtual	Outside Shift	No
Related Reports	N/A			Related CAPS / Findings							
Related Rules, SOPs, Standards, or Other	Ref		Rule or SOP		Standard		Other / Title		Checklist Reference		
	MetroRail Safety Rules and Procedures Handbook (MSRPH). Section 4- Safety Rules										
Inspection Location	Main Track	Yard	Station	OCC	RTA Facility	WMSC Office	Track Type	At-grade	Tunnel	Elevated	N/A
		X									X
Line(s)	A99	Track Number	N/A	Chain Marker and/or Station(s)		From		To			
						N/A		N/A			
Vehicles	Head Car Number		Number of Cars		Equipment	N/A					
	N/A		N/A								



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Description	<p>WMSC Inspector conducted a virtual rules compliance inspection of the Shady Grove S&I Shop and Yard facilities. The inspector requested numerous documents from daily activities performed at the S&I 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"> ○ WMSC's inspector requested and received high quality documents from the Shady Grove facility. ○ The documents depict a well-organized and run facility. ○ WMSC will address Shady Grove's facility concerns at the next CMNT/CENV Zoom meeting. <p>The following documents were reviewed:</p> <p><u>CMNT Daily Shop Safety Inspection & Housekeeping Checklist for June 18 and 19 2020</u> (See Attachment #1)</p> <ul style="list-style-type: none"> ○ This document clearly identifies safety deficiencies found in the shops and yard and identifies what action needs to be taken and the status. Two safety deficiencies were found, one on June 18 and one on June 19. An eye wash machine did not have enough fluid and a shop power cable was not properly stored. These deficiencies were listed as unsatisfactory on the checklist and that they were corrected on the same day. <p><u>Periodic Inspections (PIs) Type A-2 on Railcars 6112-13 6086-86 6040-41 and 6016-17 June 17-22, 2020</u></p> <ul style="list-style-type: none"> ○ Reviewed PIs Type A-2 on Railcars 6112-13, 6086-86, 6040-41, and 6016-17 and the following information is provided. ○ Railcar 6112, Task 70 – Measured brake pressures for brake rates B5 and Emergency/Deadman were below the allowable range. ○ Railcar 6086-87 and 6112-13, Task 20 – Items 20.12 and 20.27, Inspect axle ground brush holder and ring assembly and hook buffing and pulling face test were left blank. <p><u>Special Tools List</u> (See Attachment #2)</p> <ul style="list-style-type: none"> ○ Reviewed the special tools list and the following tools are needed to conduct Periodic Inspections: <p>Task 20</p> <ul style="list-style-type: none"> ○ Part Number WDE000837, Brake Pad Slack Adjuster Go/No-Go Gauge, Needed for 7K and 6K railcars. <p>Task 30/35</p> <ul style="list-style-type: none"> ○ Part Number WDE000843, Handle for Electrical Couplers, Needed for 7K railcars. ○ Part Number WDE000550, Glass Tube, Needed for 7K, 2K/3K, and 6K railcars. ○ Part Number WDE000841, Armature Gap Gauge, Sécheron 4H3S2028, Needed for 7K railcars. ○ Part Number WDE000842, Main Contact Tip Gauge, Sécheron 4H3S2029, Needed for 7K railcars. <p>Task 90</p> <ul style="list-style-type: none"> ○ Part Number WDE000818, Anti Rattle Block Gauge/Door Height Gauge, Needed for 7K railcars. ○ Part Number WDE000817, Nose Seal Gauge, Needed for 7K railcars. <p><u>Shady Grove Railcars Out of Service Display Screen</u> (See Attachment #3)</p> <ul style="list-style-type: none"> ○ The Shady Grove railcars out of service display screen, located in the Inspection Office, is used to keep track of the status of all railcars in the S&I shop and yard that require repairs or maintenance. ○ The display screen properly identifies the railcar number, date, defect, railcar location, and clearly describes the status of railcar and required repairs or maintenance action. 	Number of Defects	2
		Recommended Finding?	No
		Remedial Action Required?	No
		Recommended Reinspection?	No




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	Safety Committee Safety Concern Open Items List at Shady Grove. <ul style="list-style-type: none">WMATA's has a safety committee that 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.	
Remedial Action	N/A	
Effective Practices	Effective Practices <ul style="list-style-type: none">Good accomplishment. The documents provided depict that the Shady Grove 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.	

Photos: Attachment 1 – CMNT Daily Shop Safety Inspection & Housekeeping Checklist at Shady Grove Facility.

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

Date Inspected: Jun 19, 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	U
Hazardous Waste Storage	S	Cigarette Butt Containers	S
Fire Lanes / Parking	S	Lighting	S
Sidewalks	S	Dumpsters / Trash Cans	S

NOTES / COMMENT

Trash around shop leads on north end. Personnel assigned to collect and dispose of trash.

Shop Floor

Housekeeping	S	Overhead Doors	S
Housekeeping - Floor	S	Exit Doors	S
Power Boxes	U	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	S

NOTES / COMMENT

Shop power cable on 8 south not properly stored. Personnel properly stored cable. Supervisor verbally counseled.

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 – Railcars Special Tools List at Shady Grove

WMATA Drawing Number	Description	7K	2K/3K	6K
Task 20				
WDE000837	Brake Pad Slack Adjuster Go/No-Go Gauge	x		x
WDE000834	Brake Pad Thickness Go/No-Go Gauge	x	x	x
WDE000548	Pin Gauge Set	x	x	x
WDX000295	Shoe Height Tool - 3.75"		x	x
WDE000733	Shoe Height Tool - 3.5"	x		
WDE000539	Rubber Compression Condemning Limit Gauge			x
WDE000554	Coupler Hook Buff and Pull Go Gauge	x	x	x
WDE000619	Coupler Hook Buff and Pull No-Go Gauge	x	x	x
WDE000620	Coupler Hook Height/Width "No-Go" Gauge	x	x	x
WDE000553 or WDE000784	Throat Opening No-Go Gauge (Welded) Throat Opening No-Go Gauge (Bolted)	x		x
WDE000555 or WDE000618	Throat Opening No-Go Gauge (Welded) Throat Opening No-Go Gauge (Bolted)		x	
WDE000552	Guide Pin Go/No-Go Gauges	x	x	x
WDE000695	Coupler Hook Extension Tool		x	x
Task 30/35				
WDE000843	Handle for Electrical Couplers	x		
WDE000550	Glass Tube	x	x	x
WDB000111	Coupler Pin Alignment Tool		x	x
WDE000841	Armature Gap Gauge, Seckman 4H3S2028	x		
WDE000842	Main Contact Tip Gauge, Seckman 4H3S2029	x		
WDE000810	Line Contactor Special 0.8mm Gauge		x	x
Task 60				
WDE000838	Dipstick Gauge		x	x
Task 80				
WEM190173-8-2	Go/No-Go Gauge, Air Spring Height			x
WDM180140-8-2	Breda Air Bag Go/No-Go Gauge		x	
WDE000819	Go/No-Go Gauge, Air Spring Height	x		
WDE000549	Threshold Height T-Square Gauge	x	x	x
WDE000840	Threshold Height Reference Bar	x	x	x
Task 90				
WDE000398	Door Adjustment Gauge SK-07-11		x	x
WDE000382	Door Height Gauge		x	x
WDE000362	Door Guide Thickness Gauge		x	x
WDE000394	1mm 3mm Door Go/No-Go Gauge		x	x
WDE000401	Door Spindle Nut Tool		x	x
WDE000403	Door 17mm Spanner Wrench		x	x

WDE000406	Bulkhead Door Pivot Wrench		x	x
WDE000404	Door 15mm Spanner Wrench		x	x
WDE000405	Door 17.2mm Angled Wrench		x	x
WDE000410	Door Jack		x	x
WDE000411	Door Cam Stud Wrench		x	x
WDE000408	Door Offset Spanner Wrench		x	x
WDE000409	Door Lower Bump Stop Wrench		x	x
WDE000818	Armature Block Gauge / Door Height Gauge	x		
WDE000817	Nose Seal Gauge	x		
WDE000752	Push/Pull Force Gauge Adapter	x	x	x
WDE000388	3/8" Flat Plate Obstruction	x	x	x

Attachment 3 – Shady Grove Railcars Out of Service Display Screen.

Car	OOS From	Work Status	Defect	Loc	Plan Loc	Move Status	Action
7302	5/11/2020 11:21:09 PM	Awaiting Part	PI DUE @ NC // OCM CANNIBALIZED // BOTTOM APS FAN COVER/FILTER CANNIBALIZED // FRONT BULKHEAD DOOR BOTTOM SEAL CANNIBALIZED // APS/LVS F2 & F3 FUSE CANNIBALIZED // DOOR CLOSER COVERS CANNIBALIZED	04	04N	Confirmed	
6120	5/19/2020 10:11:52 PM	Car in PI	Car in PI	02	02N	Executed	
7066	6/15/2020 4:48:47 PM	Work In Progress	POST PI >> FRONT HVAC CONDENSOR LEAK	05	05N	Confirmed	
7385	6/16/2020 1:22:37 AM	Awaiting Part	(F2 FUSE) APS INPUT FUSE BLOWN	10c	10N	Confirmed	
6017	6/17/2020 3:26:49 PM	Work In Progress	POST PI // HVAC REAR SYS #1 AND #2 LOW REFRIGERANT	08a	08N	Confirmed	
6154	6/22/2020 7:42:02 PM	Work In Progress	POST PI // DNSS FAILED DOOR AUTO CLOSE AND OPEN //SIGN DESTINATION DISPLAY PANEL INOP//CDCU HAS FLASHING CODE (15 X)/MAJOR CLEANING	04	04S	Confirmed	
7182	6/23/2020 3:29:36 AM	Work In Progress	MASTER CONTROLLER MODE INDICATION TAB BROKEN / XFER TO SHADY GROVE	10c	10NL	Planned	
6004	6/23/2020 3:53:47 PM	Car in PI	Car in PI	03	03N	Executed	
6046	6/24/2020 7:50:33 AM	Awaiting Triage		14	02S	Confirmed	

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 07/09/2020
Inspector in Charge – Name Manuel Lopez	Inspection Team Manuel Lopez	