



## Inspection Form

**Form WMSC-IR-1**

Washington Metrorail Safety Commission

**Agency/Department Information**

<b>Inspection Date</b>	YYYY	MM	DD	<b>Report Number</b>	20200710-WMSC-MAL-1		
	2020	07	10				
<b>Rail Agency Name</b>	Washington Metropolitan Area Transit Authority			<b>Rail Agency Department</b>	CMNT	<b>Sub- Department</b>	Brentwood 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>	Brentwood S&I Shop - Railyard B99 601 T Street NE Washington DC 20002						

**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									1
<b>Line(s)</b>	B99	<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 Brentwood S&amp;I Shop and Yard Facilities. The inspector requested numerous documents from daily activities performed at the S&amp;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"> <li>○ WMSC’s inspector requested and received documents from the Brentwood facility.</li> <li>○ Brentwood’s operations revolve around the Scheduled Maintenance Program (SMP) to overhaul of the 3K and 6K series railcars. The 2K railcars will not be overhauled. The SMP program is performed in three stages: Interiors (i.e. changing seats to all blue colors, bulkhead door seals, master controller, etc.); Under car equipment (i.e. trucks, current collectors, brake calipers, gear boxes, draw bars, couplers, etc.); and Doors and HVAC units (i.e. door switches, evaporator motor, etc.).</li> <li>○ WMSC will address Brentwood’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 June 18 and 19 2020</u> (See Attachment #1)</p> <ul style="list-style-type: none"> <li>○ This document clearly identifies safety deficiencies found in the shops and yard and identifies what action needs to be taken and the status.</li> </ul> <p><u>SMP Special Tools List</u> (See Attachment #2)</p> <ul style="list-style-type: none"> <li>○ Reviewed the SMP special tools list and there were no tools listed as missing.</li> </ul> <p><u>Brentwood Railcars Out of Service Display Screen</u> (See Attachment #3)</p> <ul style="list-style-type: none"> <li>○ The Brentwood railcars out of service display screen, which is in the Inspection Office, is used to keep track of the status of all railcars in the S&amp;I shop and yard that require repairs or maintenance.</li> <li>○ The display screen identified the railcar number, but for some railcars it did not include the date, type of defect, railcar location, and the status of railcar requiring repairs or maintenance action (compare to the railcars out of service display screen at the Shady Grove facility).</li> </ul> <p><u>Work Orders Associated to Safety Concerns at Brentwood.</u></p> <ul style="list-style-type: none"> <li>○ Brentwood’s facility provided copies of open work orders associated with safety concerns, such as “B95 ROOF IS LEAKING MAIN SHOP AREA AT 9A/B/C NORTH AND SOUTH”, and “B95, INOP OVERHEAD DOOR IN TRACK 9C NORTH”. Please provide WMSC with photographs of these safety concerns along with others a brief explanation of the concern.</li> </ul>	<b>Number of Defects</b>	x
		<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>	Effective Practices:		



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Photos:

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

## CMNT Daily Shop Safety Inspection & Housekeeping Checklist

Print

Date Inspected: Jun 18, 2020      Inspected by: [Redacted]

AL S&I	BA S&I	BW S&I	<input checked="" type="checkbox"/>	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	U
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	S

**NOTES / COMMENT**

Flattened cardboard boxes at east exits causing tripping hazard- Supervisor notified and items removed.

**Car Wash / Cleaning Tank / Steam Cleaning Booths**

Housekeeping	N/A	Walkways	N/A
Exit Doors	N/A	Appropriate PPE	N/A
Drains	S	Overhead Doors (if applicable)	N/A

**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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June 6, 2019

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Attachment 2 – Railcars SMP Special Tools List at Brentwood.

<b>FRONT MECHANICAL COUPLER OVERHAUL</b>	
<b>WMATA Reference Number</b>	<b>Description</b>
WMATA DWG. No. WDE000864, Dellner P/N 1021084	Extension Holder Tool
WMATA DWG. No. WDE000869, Dellner P/N 1002706	Buffer Clamp Tool
Dellner P/N 180624	Orange Wrench
Dellner P/N 180571	Hook Spanner
WMATA DWG. No. WDE000734, Dellner P/N 167380	Main Pin Hole Gauge
WMATA DWG. No. WDE000554, Dellner P/N 163701	Coupler Hook "GO" Gauge
WMATA DWG. No. WDE000619, Dellner P/N 163702	Coupler Hook "NO GO" Buffing/Pulling Gauge
WMATA DWG. No. WDE000620, Dellner P/N 167379	Coupler Hook Width & Thickness "NO-GO" Gauge
WMATA DWG. No. WDE000553, Dellner P/N 183135	Coupler Throat "NO GO" Gauge
183013	Template Contact Block Right
183014	Template Contact Block Left
1011322-1	Yoke Press Tool
WMATA DWG. No. WDE00069	Coupler Hook Extension Tool
WMATA DWG. No. WDE000862	Hook Bushing Driver & Installer
WMATA DWG. No. WDE000863	Draft Gear Spring Pressing Tool
WMATA DWG. No. WDE000864	Extension Holder Tool
WMATA DWG. No. WDE000865	Hook Jig Tool
WMATA DWG. No. WDE000867	Draft Gear w/Anchor, Pick-up Tool
WMATA DWG. No. WDE000868	Draft Gear Tool
WMATA DWG. No. WDE000869	Buffer Tool Clamp
WMATA DWG. No. WDE000870	Rear Bracket Jig
WMATA DWG. No. WDE000871	Spherical Bushing Press Tool
WMATA DWG. No. WDE000872	Draft Gear Socket
WMATA DWG. No. WDE000873	Draft Gear Press Plate
WMATA DWG. No. WDE000874	Coupler Bushing Driver Tool
WMATA DWG. No. WDE000875	Spherical Bearing Bushing Holder
WMATA DWG. No. WDE000876	Spherical Bearing Installer Tool
WMATA DWG. No. WDE000880	Coupler Stand Assembly
WMATA DWG. No. WDE000880	Attachment Tool, Dismounting/Mounting Mechanical Coupler #24
<b>REAR SEMI-PERMANENT COUPLER OVERHAUL</b>	
<b>WMATA Reference Number</b>	<b>Description</b>
180624	Wrench
180571	Hook Wrench
WMATA DWG. No. WDE000867	Draft Gear Pick-Up Tool
WMATA DWG. No. WDE000873	Draft Gear Press Plate
WMATA DWG. No. WDE000872	Draft Gear Socket
WMATA DWG. No. WDE000871	Spherical Bushing Press Tool
WMATA DWG. No. WDE000863	Draft Gear Press



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Attachment 3 – Brentwood Railcars Out of Service Display Screen.

The screenshot shows the 'MNT Shop Planning' interface for 'Brentwood (B99)'. It displays a table of railcars with columns for Car ID, OOS From, Work Status, Defect, Loc, Plan Loc, and Move Status. The table lists 12 railcars, with 10 in 'Work In Progress' and 2 in 'Confirmed' status. Defects include HVAC issues, awaiting parts, and personnel.

Car	OOS From	Work Status	Defect	Loc	Plan Loc	Move Status
6140		Work In Progress			YARD - OOS	Confirmed
7690		Work In Progress			09AS	Confirmed
7704		Work In Progress				
7670		Work In Progress				
7618		Work In Progress				
6116	2/4/2020 4:05:02 AM	Work In Progress	6K SMP (5/23/20) HVAC	09	09N	Confirmed
6142	3/25/2020 11:35:02 AM	Awaiting Part	6K SMP (3/25/20)DRSW/(1)COUPLER// HVAC	13		
6122	4/22/2020 2:26:57 AM	Work In Progress	6K SMP (5/23/20) HVAC	09	125	Confirmed
6144	4/27/2020 10:52:32 AM	Work In Progress	6K SMP (4/9/20)HVAC/ DRSW/(2)F-COULERS	13		
6146	6/20/2020 6:06:20 PM	Awaiting Personnel	6K SMP (6/21/20) HVAC/ COUPLER / FB / PROP/SEATS/DRS	12		

©2020 - CMNT Shop Planning. Best viewed in google chrome.  
System support provided by ROCS Technicians at 202-962-1378.

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