

### Form WMSC-IR-1

# Washington Metrorail Safety Commission

#### Agency/Department Information

Inspection Date	YYYY	MM	DD	Report Number	20210304-WI	ASC NA	۸.۱	
Inspection Date	2021	03	04	Report Number	20210304-001	VISC-IVIA	4L	
Rail Agency Name	Washington Authority	Metropolitan	Area Transit	Rail Agency Department	CMNT	Sub- Departm	ent	Greenbelt Shops and Yard
	ı	Name		Email	Office Phon	e		Mobile Phone
Rail Agency Department Contact Information		L						
Inspection Location	5801 Sunny		rd - Railyard I	E99				

#### Inspection Summary

Inspection Activity #	1	2	3	4	5	6
Activity Code	VM-WI-PI					
Inspection Units	1					
Inspection Subunits	0					
Defects (Number)	3					
Recommended Finding	No					
Remedial Action Required <sup>1</sup>	No					
Recommended Reinspection	No					

#### **Activity Summaries**

Inspection Activity #	1	Inspec	ction Sub	ject	Ren	note inspe	ection	1			Acti	vity Co	de	VN	N	WI	PI
Job Briefing Employee Name/Title	WMA	ATA Insp	pection				ompa	anied r?	N/A	Out Brief Conducted	N,	/A	Time	Rem	ote	Outside Shift	No
Related Reports	N/A					Rela	ated	CAPS / F	indings								•
	Ref				Rule	or SOP			Standard			Othe	r / Title		Che	cklist Refe	rence
Related Rules, SOPs, Standards, or Other	and F Hand	Procedu Ibook (N	afety Rule: Ires MSRPH). afety Rule														
		Main Track Yard Station (			осс		RTA acility	WMSC Office	Office			e Tu	nnel	Ele	evated	N/A	
Inspection Location			X							Track Type							Х
U/-\	F00		Track		NI/	•	Ch	ain Mar	rker		From					То	
Line(s)	E99		Numbe	er	N//	4	an	d/or Sta	ation(s)	N/A				N/A			
	Hea	ad Car N	lumber		Numb	er of Car	5										
Vehicles		N/A				N/A		Equip	ment	N/A							

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	WMSC Inspector conducted a remote rules compliance inspection of the Greenbelt	Number of Defects	3
	S&I Shop and Yard. The inspector reviewed several documents from daily activities		
	performed at this facility for compliance with Metrorail Safety Rules and Procedures	Recommended Finding?	
	Handbook (MSRPH), as well as equipment maintenance activities, and documentation.	Remedial Action Required?	No
	The following documents were reviewed:  CMNT Daily Shop Safety Inspection & Housekeeping Checklist from Jan 25 through Jan 29-2021  Reviewed CMNT's Daily Shop Safety Inspection & Housekeeping Checklist and the following information is provided.  CMNT's Daily Shop Safety Inspection & Housekeeping Checklist properly identifies safety hazards, action taken, and if the issue was mitigated. See Attachment #1.  Periodic Inspections (PIs) Type A1 data was provided for railcars 7154-55 for 2-03-2021.  Reviewed PIs Type A1 data for railcars 7154-55 and the following information is provided.  Finding #1 – Task 70 - Railcars 7154 and 7155 – The PI document states that the measured emergency brake rate (B5) and emergency dead-man pressures on both rear trucks is 42 PSI, which is below the acceptable range of 42.3 to 48.3 psi, and below the desired pressure of 45.3 psi. See attachment #2.  Finding #2 - Task 80 – The PI procedure measures the carbody and air	Remedial Action Required:	No
Description	spring heights, but it does not state the acceptable range for these dimensions. See attachment #3.  Special Tools list  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 7K, 2K3K, and 6K railcars.  Finding # 3 – There are many special tools missing that are needed to conduct Periodic Inspections on 7K, 2K3K, and 6K railcars. See Attachment #4.	Recommended Reinspection?	No
	Greenbelt Railcars Out of Service Display Screen  The Greenbelt railcars out of service display screen, which is located in the Inspection Office, is used to keep track of railcars in the S&I shop and yard that require repairs or maintenance action.  The display screen properly identifies the railcar number, date, defect, railcar location, and clearly describes the repair or maintenance action required. See Attachment #5.		
	Safety Committee Safety Concern Open Items List at Greenbelt Yard.  O WMATA's 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.  O Greenbelt S&I provided the following list of safety concerns.  1. Need weeds cut and removed from track 6 and 7 South. The weeds died but are still there.  2. Need lights in the corners of the Blow Pits.  3. Need a racket for the railcar side door fall protection equipment.  4. Need rubber hockey support feet for the big ladders.  5. Need asphalt to level out walking area around the apron by all tracks.		

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	Please ensure these safety concerns are addressed during the Safety     Committee's meetings. WMATA POC at the Greenbelt S&I Shop is the     Superintendent.
Remedial Action	Remedial Action  O CMNT/CENV should institute acceptance ranges for the car body and air spring height measurements into the PI procedure.
Effective Practices	Effective Practices  O Collaborating between CMNT and CENV to resolve railcar incidents is an excellent approach to prevent the re-occurrence of railcar incidents.

Photos:

Attachment 1 – CMNT Daily Shop Safety Inspection & Housekeeping Checklist

Hazardous Waste Storage N Fire Lanes / Parking	satisfactory n	tory instruments. N	d where he lust includ Iding	elpfu le de hop	Ĭ.	area.	Paint Booth			
S8I 96 S8I WFC S8I WFC N Place an "5" = Satisfactory or "U" = Unit Notes / Comments are required for any Unisatist Exterior / Housekeeping Hazardous Waste Storage N Fire Lanes / Parking Sidewalks	Annex satisfac ine enco actory n Arcas o	story instrurages	spection for d where he lust includ Iding	elpfu le de hop	g next to each it. tails and correct Aprons / Leads	area.				
Place an "S" = Satisfactory or "U" = Unit Notes / Comments as Notes / Comments are required for any Unsatisfactor / Housekeeping Hazardous Waste Storage Notes / Fire Lanes / Parking Stdewalks	satisfactory in Arcas (	nark, N	d where he lust includ Iding	elpfu le de hop	i. tails and correc	otive act	ion(s).			
Notes / Comments are required for any Unsarity  Exterior F  Housekeeping  Hazardous Waste Storage  Fire Lanes / Parking  Sidewalks	Arcas of	nark, N	d where he lust includ Iding	elpfu le de hop	i. tails and correc	otive act	ion(s).			
Housekeeping Exterior A Housekeeping  Hazardous Waste Storage  Fire Lanes / Parking Sidewalks	Arcas (		lding S	hop.	Aprons / Leads		ion(s).			
Housekeeping Hazardous Waste Storage N Fire Lanes / Parking Sidewalks	5 IIA 5	of Bui	3	_						
Hazardous Waste Storage N Fire Lanes / Parking Sidewalks	J/A S			_						
Fire Lanes / Parking Sidewalks	5		Oig				_			
Sidewalks	_				Lighting	.15	-			
	5		D.		ers / Trash Car		-	N		
NOTES	0.1.00	148458		mps	ers / Trash Cal	15		-		
	5/00	MME						_		
SI	hop Fl	oor								
Housekeeping	U			Ove	rhead Doors		$\overline{}$			
	ŭ			8	Exit Doors					
Married Married	U				Oil Room					
	s			V	heel Lathe			_		
Drop Lights / Extension Cords	S			1	Walkways					
	S				Blow Pit			Ī		
Used Oil Storage N	/A		Use	d Pa	art Tag & Stora	ge		N		
Eyewash Stations	s			Loc	kout / Tagout					
Equipment Tag	s				Train Lifts					
Blue Flag / SOP 12	U		F	lami	nable Cabinets	,				
Food Prep Equipment	5			Bo	ttle Labeling					
NOTE:	5/C0	MMEN	IT					_		
with trash on them(This will be addressed during shop clean	(qu f							_		
power cord damaged (W/O #10123008)										
d blue flags set up improperly(issue was corrected)  Car Wash / Cleaning T	Comb /	01	Classia	. B	oothe					
	CHIEF !	otcani	Cicaliiii		Wakways					
Housekeeping	5						_	-		
Housekeeping Exit Doors	5		Overh	Арр	ropriate PPE	able)		N		
Housekeeping Exit Doors	5	LIME N		Арр		able)		_		

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Attachment 2 – Railcar 7154 and 7155 measured emergency brake rate (B5) and deadman pressure on rear truck

Front:	75.83	6-63-	and the second s	
Brake Rate	Desired (psi)	Range (psi)	Initial Measurement	After Adjustment
B5	45.3	42.3 - 48.3	45	45
B4	34.8	31.8 - 37.8	34	'35
B1	8.5	5.5 - 11.5	8	7
Coast	0	0	0	٥
EMER/Deadman	45.3	42.3 - 48.3	44	44
Rear:	1			
Brake Rate	Desired (psi)	Range (psi)	Initial Measurement	After Adjustment
B5	45.3	42.3 - 48.3	42	42.
B4	34.8	31.8 - 37.8	34	35
B1	8.5	5.5 - 11.5	8	8
Coast	0	0	0	0
EMER/Deadman	45.3	42.3 - 48.3	43	42

Attachment 3 – PI procedure does not state the acceptable range for the carbody height or air spring height dimensions (note: this is an A-Car checklist. The A & B cars are completed separately on separate forms)

	A-0	Car		B-0	Car
	Left Side	Right Side		Left Side	Right Side
	Wheel Diameter	Wheel Diameter		Wheel Diameter XXX	Wheel Diameter
ront	Air Spring Height	Air Spring Height	Front	Air Spring Height XXX	Air Spring Height
	Carbody Height	Carbody Height		Carbody Height	Carbody Height XXX
	Wheel Diameter	Wheel Diameter		Wheel Diameter XXX	Wheel Diameter XXX
Rear	Air Spring Height	Air Spring Height	Rear	Air Spring Height XXX	Air Spring Height
	Carbody Height	Carbody Height		Carbody Height XXX	Carbody Height

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## Attachment 4 – Special Tools List for 7K, 2K3K, and 6K Railcars



4	A	В	C	D	Ε	F	н	1 3	4	A	8	С	D	E	. F	н	1.
1	WMATA Drawing Number	Description	TASK	7K	2K/3K	6K	Missing	Never Hart	1	WMATA Drawing Number	Description	TASK	7K	2K/3K	6K	Missing.	Never Ha
33		PTU laptop with Connecting Cables	40	×	×	X			49	WDE000382	Door Height Gauge	90		X	X		
34		VEAM Circular Connector FRCIR06F-10SL-3S-F80-VO	40	X				x	50	WDE000392	Door Guide Thickness Gauge	90		×	X.		
35		HVAC Manifold Gauge Set	50	×	×	X			51	WDE000394	1mm 3mm Door Go/No Go Gauge	90		×	X		
36		Digital Thermometer	50	X	×	X			52	WDE000401	Door Spindle Nut Tool	90		×	X		
37		Quick Disconnect Adapters for low side	50	×				×	53	WDE000403	Door 17mm Spanner Wrench	90		×	X		
38		Quick Disconnect Adapters for high side	50	×				x	54	WDE000406	Bulkhead Door Pivot Wrench	90		×	X		
39		Grease Gun	60	×	×	X			55	WDE000404	Door 15mm Spanner Wrench	90		X	X		
40	WDE000838	Dipstick Gauge	60		×	X			56	WDE000405	Door 17.2mm Angled Wrench	90		×	X		
41	110000000000000000000000000000000000000	Direct Reading Gauges - Brake Rates	70	×	×	×			57	WDE000410	Door Jack	90		×	X		
42	WEM190173-8-2	Go/No-Go Gauge, Air Spring Height	80	-	-	×			58	WDE000411	Door Cam Stud Wrench	90		×	X.		
42	WDM180140-8-2	Breda Air Bag Go/No-Go Gauge	80			^			59	WDE000408	Door Offset Spanner Wrench	90		×	X		
44	WDE000819	Go/No-Go Gauge, Air Spring Height	80	~					60	WDE000409	Door Lower Bump Stop Wrench	90		×	X		
10-11				^	-				61	WDE000818	Anti Rattle Block Gauge / Door Height Gauge	90	X				
45	WDE000549	Threshold Height T-Square Gauge	80	X	X	X			62	WDE000817	Nose Seal Gauge	90	X				
46	WDE000640	Threshold Height Reference Bar	80	X	X	X			63	WDE000752	Push/Pull Force Gauge Adapter	90	×	×	X		
47		Feeler Gauge (1.2mm to 2.2mm)	90	X				X	64	WDE000388	3/8" Flat Plate Obstruction	90	X	×	x		
48	WDE000398	Door Adjustment Gauge SK-07-11	90		×	X			65		Torque Wrench	Multiple	×	×	X		

### Attachment 5 – Greenbelt Railcars Out of Service Display Screen

Nev	w Row												
	Shop	,.	Car		Date*	TRK LOC	Defects	Part #	ENG?	SUP?	WIP7	REL_EXP?	EDC
	g.0	Q.	196	>					>	۹	aa	q	
>	£	Q,	R3242		10/16/20 4:28	14	2/3K REHAB (10/16/2020) TRUCKS /M/		> -	<b>5</b>	<b>2</b>		
>	E	Q	R3272	-	2/1/21 11:27	6N	NORA FLOOR TILE		> D		w		2/16/21 0:00
>	E	Q,	R3028	>	2/6/21 4:58	14	NORA FLOOR TILE		> 🗆				
>	E	Q	R3148	>	2/6/21 12:30	PB26	NORA FLOOR TILE INSTALLATION		> []		W.		
>	G	Q.	R7038	>	2/21/20 4:44	17	MULTI-DISCREPANCIES / DEFECTIVE 1	AWPSTORE	> 🗆	0			
>	G	Q	R2064	>	4/23/20 18:50	14	AIR COMP INOP / #7 JOURNAL BEARIN	M18325762	> -				
>	G	Q.	R7500	>	1/11/21 10:08	185	PHASE 4 FMI		> 🖾				
>	G	Q,	R7510	>	1/13/21 20:19	18N	PHASE 4 FMI		> M				
>	G	Q,	R2058	>	1/19/21 15:53	14	2058-59/ POST PI DEFECTS		> []				
>	G	Q,	R7062	>	1/26/21 23:33	19N	FMI PHASE 4		> 50				
>	G	Q	R7060	>	1/26/21 23:33	195	FMI PHASE 4		> 22				
>	G	Q,	R3261	3	2/3/21 11:53	65	NEW CARROLTON PI CAR		> 🗆		<b>V</b>		
>	G	Q	R7154	>	2/3/21 19:20	6NL	POST PI >> FRONT HVAC, BYPASS # 1		> III	п	п	п	

<sup>&</sup>lt;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.

Inspector in Charge - Signature		Date 03/04/2021
Inspector in Charge – Name	Inspection Team	
Manuel Lopez	Manuel Lopez	

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