



Inspection Form

FOIA Exemption: All (b)(6)

Form FTA-IR-1

United States Department of Transportation
Federal Transit Administration

Agency/Department Information

Inspection Date	YYYY	MM	DD	Report Number	20170905-WMATA-AG-1		
	2017	09	05				
Rail Agency Name	Washington Metropolitan Area Transit Authority			Rail Agency Department	TRST	Sub- Department	TKIN
Rail Agency Department Contact Information	Name		Email		Office Phone		Mobile Phone
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
Inspection Location	N-Line, Track 2, Wiehle-Reston East (N06) to Spring Hill (N04)						

Inspection Summary

Inspection Activity #	1	2	3	4	5	6
Activity Code	TRK-JSB-OBS	TRK-WI-PI				
Inspection Units	1	1				
Inspection Subunits	1	1				
Defects (Number)	0	3				
Recommended Finding	No	Yes				
Remedial Action Required ¹	No	Yes				
Recommended Reinspection	No	Yes				

Activity Summaries

Inspection Activity #	1	Inspection Subject					Job Safety Briefing			Activity Code		TRK	JSB	OBS
Job Briefing Employee Name/Title	TRST 6034					Accompanied Inspector?	Yes	Out Brief Conducted	Yes	Time	1000-1330	Outside Shift	No	
Related Reports	N/A					Related CAPS / Findings			N/A					
Related Rules, SOPs, Standards, or Other	Ref		Rule or SOP		Standard		Other / Title		Checklist Reference					
	RWPM													
	MSRPH													
Inspection Location	Main Track	Yard	Station	OCC	RTA Facility	FTA Office	Track Type	At-grade	Tunnel	Elevated	N/A			
	X							X						
Line(s)	N-Line	Track Number	Track 2		Chain Marker and/or Station(s)		From		To					
							Wiehle-Reston East (N06)		Spring Hill (N04)					
Vehicles	Head Car Number		Number of Cars		Equipment	N/A								
	N/A		N/A											

¹ The rail transit agency must provide FTA 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 FTA verification inspections to ensure corrections are sufficient and effective.

Inspector in Charge - Signature	ADAM ANTHONY GIOVANDO		Digitally signed by ADAM ANTHONY GIOVANDO DN: c=US, o=U.S. Government, ou=FRA FRAFTWorthTX, ou=DOT FRAFTWorthTX, cn=ADAM ANTHONY GIOVANDO Date: 2017.09.08 09:54:44 -04'00'	Date
Inspector in Charge - Name	Adam Giovando			
Inspection Team	Mike Vitale			

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Version date: 8/26/16



United States Department of Transportation
Federal Transit Administration

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Description	The FWSO Inspector received a job safety briefing from the roadway worker in charge (RWIC) at Wiehle-Reston East (N06) prior to entering the roadway. The briefing covered the type of on-track protection (i.e., Train Approach Warning (TAW)), the working limits, where to clear, known hazards and hotspots, safety rule of the day, location of nearest hospital, a check of personal protective equipment (PPE), and roadway worker protection (RWP) ID.	Number of Defects	0
		Recommended Finding?	No
		Remedial Action Required?	No
		Recommended Reinspection?	No
Remedial Action	N/A		

Inspection Activity #	2	Inspection Subject		Track Walker Observation					Activity Code		TRK	WI	PI
Job Briefing Employee Name/Title	TRST 6034				Accompanied Inspector?		Yes	Out Brief Conducted	Yes	Time	1000-1330	Outside Shift	No
Related Reports	N/A				Related CAPS / Findings			N/A					
Related Rules, SOPs, Standards, or Other	Ref		Rule or SOP			Standard			Other / Title		Checklist Reference		
	TRST 1000												
	MSRPH												
Inspection Location	Main Track	Yard	Station	OCC	RTA Facility	FTA Office	Track Type	At-grade	Tunnel	Elevated	N/A		
	X							X					
Line(s)	N-Line		Track Number		Track 2		Chain Marker and/or Station(s)	From		To			
								Wiehle-Reston East (N06)		Spring Hill (N04)			
Vehicles	Head Car Number		Number of Cars			Equipment	N/A						
	N/A		N/A										

Description	<p>FWSO Inspectors observed WMATA employees and contractors perform a track inspection on track 2 of the N-Line between Wiehle-Reston East (N06) and Spring Hill (N04). Inspectors also inspected track conditions and followed up on previously-issued remedial actions.</p> <p>The following non-color-coded defects were observed:</p> <ul style="list-style-type: none"> TRST 1000 Manual, 13.3.14: End approach cover board was missing at N2 1006+70. TRST 1000 Manual, 13.3.6: There was evidence of collector shoes striking the nose of the end approach at N2 1006+70. There were multiple collector shoes laying on the ballast nearby. The end approach also appeared to be misaligned with the insulator, creating an uneven wear pattern. (See figures 1 and 2 below.) TRST 1000 Manual, 13.3.4: The third rail anchor arm was broken at N2 838+50. <p>Other Notable Observations:</p> <ul style="list-style-type: none"> There was evidence of track pumping at N1 800+40. Inspectors were not inspecting this track, so the vertical deflection could not be measured. There was a crane situated beneath the aerial structure at N2 788+00 which has the potential to foul the roadway when in use. (See figure 3 below.) 	Number of Defects	3
		Recommended Finding?	Yes
		Remedial Action Required?	Yes
		Recommended Reinspection?	Yes

Remedial Action	<p>To achieve compliance with WMATA's requirements:</p> <ul style="list-style-type: none"> WMATA must replace the cover board at N2 1006+70. WMATA must adjust the end approach at N2 1006+70. WMATA must repair the third rail anchor at N2 838+50.
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Photos:



Figures 1 and 2: Missing cover board, evidence of collector shoes striking the nose of the end approach, and misaligned end approach at N2 1006+70.



Figure 3: Crane beneath aerial structure at N2 778+00.



Inspection Form

FOIA Exemption: All (b)(6)
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United States Department of Transportation
Federal Transit Administration

Agency/Department Information

Inspection Date	YYYY	MM	DD	Report Number	20170906-WMATA-AG-1		
	2017	09	06				
Rail Agency Name	Washington Metropolitan Area Transit Authority			Rail Agency Department	TRST	Sub- Department	TKIN
Rail Agency Department Contact Information	Name		Email		Office Phone		Mobile Phone
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
Inspection Location	J-Line, Track 2, Van Dorn Street (J02) to J2 624+00						

Inspection Summary

Inspection Activity #	1	2	3	4	5	6
Activity Code	TRK-JSB-OBS	TRK-WI-PI				
Inspection Units	1	1				
Inspection Subunits	1	1				
Defects (Number)	0	24				
Recommended Finding	No	Yes				
Remedial Action Required ¹	No	Yes				
Recommended Reinspection	No	Yes				

Activity Summaries

Inspection Activity #	1	Inspection Subject					Job Safety Briefing			Activity Code		TRK	JSB	OBS
Job Briefing Employee Name/Title	TRST 6344					Accompanied Inspector?	Yes	Out Brief Conducted	Yes	Time	1000-1115	Outside Shift	No	
Related Reports	N/A					Related CAPS / Findings			N/A					
Related Rules, SOPs, Standards, or Other	Ref		Rule or SOP			Standard			Other / Title		Checklist Reference			
	RWPM													
	MSRPH													
Inspection Location	Main Track	Yard	Station	OCC	RTA Facility	FTA Office	Track Type	At-grade	Tunnel	Elevated	N/A			
	X							X						
Line(s)	J-Line	Track Number	Track 2		Chain Marker and/or Station(s)		From		To					
							Van Dorn Street (J02)		J2 624+00					
Vehicles	Head Car Number		Number of Cars			Equipment	N/A							
	N/A		N/A											

¹ The rail transit agency must provide FTA 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 FTA verification inspections to ensure corrections are sufficient and effective.

Inspector in Charge - Signature	ADAM ANTHONY GIOVANDO		Digitally signed by ADAM ANTHONY GIOVANDO DN: c=US, o=U.S. Government, ou=FRA FRAFTWorthTX, ou=DOT FRAFTWorthTX, cn=ADAM ANTHONY GIOVANDO Date: 2017.09.08 10:01:37 -04'00'	Date
Inspector in Charge - Name	Adam Giovando			
Inspection Team	Ken Sgroi, Mike Vitale			



United States Department of Transportation
Federal Transit Administration

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Description	The FWSO Inspector received a job safety briefing from the roadway worker in charge (RWIC) at Van Dorn Street (J02) prior to entering the roadway. The briefing covered the type of on-track protection (i.e., Train Approach Warning (TAW)), the working limits, where to clear, known hazards and hotspots, safety rule of the day, location of nearest hospital, a check of personal protective equipment (PPE), and roadway worker protection (RWP) ID.							Number of Defects		0	
								Recommended Finding?		No	
								Remedial Action Required?		No	
								Recommended Reinspection?		No	
Remedial Action	N/A										

Inspection Activity #	2		Inspection Subject				Track Walker Observation			Activity Code		TRK	WI	PI
Job Briefing Employee Name/Title	TRST 6344				Accompanied Inspector?	Yes		Out Brief Conducted	Yes	Time	1000-1115	Outside Shift	No	
Related Reports	N/A				Related CAPS / Findings		N/A							
Related Rules, SOPs, Standards, or Other	Ref		Rule or SOP			Standard			Other / Title		Checklist Reference			
	TRST 1000													
	MSRPH													
Inspection Location	Main Track	Yard	Station	OCC	RTA Facility	FTA Office	Track Type	At-grade	Tunnel	Elevated	N/A			
	X							X						
Line(s)	J-Line	Track Number	Track 2		Chain Marker and/or Station(s)	From			To					
						Van Dorn Street (J02)			J2 624+00					
Vehicles	Head Car Number		Number of Cars		Equipment	N/A								
	N/A		N/A											

Description	FWSO Inspectors observed WMATA employees and contractors perform a track inspection on track 2 of the J-Line between Van Dorn Street (J02) and J2 624+00. Inspectors also inspected track conditions and followed up on previously-issued remedial actions. Track inspection was cancelled due to inclement weather at 1115 hours and the inspection team was picked up at J2 624+00. The following color-coded defect was observed: <ul style="list-style-type: none">TRST 1000 Manual, Table 5-21: A loose bolt was noted in the joint bar on the right rail at J2 686+60. This was repaired by the inspector immediately. (Yellow condition.) The following non-color-coded defects were observed: <ul style="list-style-type: none">TRST 1000 Manual, 13.3.4: The third rail anchor arm was broken at J2 685+90.TRST 1000 Manual, 3.1.2.5: Emergency Trip Station (ETS) Box J-52 blue light was out at J2 680+00.TRST 1000 Manual, 3.1.2.5: ETS Box J-50 blue light was out at J2 672+00.TRST 1000 Manual, 3.1.2.5: ETS Box J-49 blue light was out at J1 672+00.TRST 1000 Manual, 3.1.2.5: ETS Box J-48 blue light was out at J2 665+00.TRST 1000 Manual, 3.1.2.5: ETS Box J-47 blue light was out at J1 665+00.TRST 1000 Manual, 3.1.2.5: ETS Box J-46 blue light was out at J2 658+00.TRST 1000 Manual, 5.29.2: Emergency Guard Rail was not secured to the aerial structure at J2 658+00.TRST 1000 Manual, 3.1.2.5: ETS Box J-44 blue light was out at J2 650+00.TRST 1000 Manual, 3.1.2.5: ETS Box J-44 blue light was out at J2 650+00.TRST 1000 Manual, 3.1.2.5: ETS Box J-43 blue light was out at J1 650+00.TRST 1000 Manual, 3.1.2.5: ETS Box J-42 blue light was out at J2 645+00.TRST 1000 Manual, 3.1.2.5: ETS Box J-41 blue light was out at J1 645+00.							Number of Defects		24	
								Recommended Finding?		Yes	
								Remedial Action Required?		Yes	
								Recommended Reinspection?		Yes	



	<ul style="list-style-type: none">• TRST 1000 Manual, 3.1.2.5: ETS Box J-40 blue light was out at J2 640+20.• TRST 1000 Manual, 3.1.2.5: ETS Box J-39 blue light was out at J1 640+20.• TRST 1000 Manual, 3.1.2.5: ETS Box J-38 blue light was out at J2 639+00.• TRST 1000 Manual, 3.1.2.5: ETS Box J-37 blue light was out at J1 639+00.• TRST 1000 Manual, 3.1.2.5: ETS Box J-36 blue light was out at J2 637+00.• TRST 1000 Manual, 3.1.2.5: ETS Box J-35 blue light was out at J1 637+00.• TRST 1000 Manual, 3.1.2.5: ETS Box J-34 blue light was out at J2 632+00.• TRST 1000 Manual, 3.1.2.5: ETS Box J-33 blue light was out at J1 632+00.• TRST 1000 Manual, 3.1.2.5: ETS Box J-32 blue light was out at J2 624+00.• TRST 1000 Manual, 3.1.2.5: ETS Box J-31 blue light was out at J1 624+00. <p>Other Notable Observations:</p> <ul style="list-style-type: none">• Safety walkway at J2 665+00 was not secured.• Right rail between J2 659+00 and 659+50 was not seated properly in fasteners.• Fasteners were showing signs of deterioration at J2 632+45.		
Remedial Action	<p>To achieve compliance with WMATA's requirements:</p> <ul style="list-style-type: none">• WMATA must replace the broken third rail anchor arm at J2 685+90.• WMATA must repair ETS Box J-52 at J2 680+00.• WMATA must repair ETS Box J-50 at J2 672+00.• WMATA must repair ETS Box J-49 at J1 672+00.• WMATA must repair ETS Box J-48 at J2 665+00.• WMATA must repair ETS Box J-47 at J1 665+00.• WMATA must repair ETS Box J-46 at J2 658+00.• WMATA must secure Emergency Guard Rail to aerial structure at J2 658+00.• WMATA must repair ETS Box J-44 at J2 650+00.• WMATA must repair ETS Box J-44 at J2 650+00.• WMATA must repair ETS Box J-43 at J1 650+00.• WMATA must repair ETS Box J-42 at J2 645+00.• WMATA must repair ETS Box J-41 at J1 645+00.• WMATA must repair ETS Box J-40 at J2 640+20.• WMATA must repair ETS Box J-39 at J1 640+20.• WMATA must repair ETS Box J-38 at J2 639+00.• WMATA must repair ETS Box J-37 at J1 639+00.• WMATA must repair ETS Box J-36 at J2 637+00.• WMATA must repair ETS Box J-35 at J1 637+00.• WMATA must repair ETS Box J-34 at J2 632+00.• WMATA must repair ETS Box J-33 at J1 632+00.• WMATA must repair ETS Box J-32 at J2 624+00.• WMATA must repair ETS Box J-31 at J1 624+00.		



Inspection Form

FOIA Exemption: All (b)(6)

Form FTA-IR-1

United States Department of Transportation
Federal Transit Administration

Agency/Department Information

Inspection Date	YYYY	MM	DD	Report Number	20170907-WMATA-AG-1		
	2017	09	07				
Rail Agency Name	Washington Metropolitan Area Transit Authority			Rail Agency Department	TRPM	Sub- Department	
Rail Agency Department Contact Information	Name		Email		Office Phone		Mobile Phone
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
Inspection Location	McLean (N01) - Alternating Current (AC) Switchboard (SWBD)						

Inspection Summary

Inspection Activity #	1	2	3	4	5	6
Activity Code	TP-JSB-OBS	TP-RM-OBS				
Inspection Units	1	1				
Inspection Subunits	1	1				
Defects (Number)	0	0				
Recommended Finding	No	No				
Remedial Action Required ¹	No	No				
Recommended Reinspection	No	No				

Activity Summaries

Inspection Activity #	1	Inspection Subject					McLean (N01) – Safety Briefing			Activity Code		TP	JSB	OBS
Job Briefing Employee Name/Title	WMATA Power Personnel					Accompanied Inspector?	Yes	Out Brief Conducted	Yes	Time	0100 - 0500	Outside Shift	Yes	
Related Reports	N/A					Related CAPS / Findings		N/A						
Related Rules, SOPs, Standards, or Other	Ref		Rule or SOP		Standard			Other / Title		Checklist Reference				
	RWPM													
Inspection Location	Main Track	Yard	Station	OCC	RTA Facility	FTA Office	Track Type	At-grade	Tunnel	Elevated	N/A			
			X									X		
Line(s)	N-Line	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											

¹ The rail transit agency must provide FTA 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 FTA verification inspections to ensure corrections are sufficient and effective.

Inspector in Charge - Signature	ADAM ANTHONY GIOVANDO		Digitally signed by ADAM ANTHONY GIOVANDO DN: c=US, o=U.S. Government, ou=FRA FRAftWorthTX, ou=DOT FRAftWorthTX, cn=ADAM ANTHONY GIOVANDO Date: 2017.09.13 14:02:52 -04'00'	Date
Inspector in Charge – Name	Adam Giovando		Inspection Team	Tino Sahoo



United States Department of Transportation
Federal Transit Administration

Form FTA-IR-1

Description	FWSO personnel received a job safety briefing from the WMATA power personnel. All personal protective equipment (PPE) and roadway worker protection (RWP) IDs were checked. WMATA power personnel covered the nearest hospital and safety rule of the day. The potential safety hazards were discussed. The FWSO Inspector did not note any defects.	Number of Defects	0
		Recommended Finding?	No
		Remedial Action Required?	No
		Recommended Reinspection?	No
Remedial Action	N/A		

Inspection Activity #	2	Inspection Subject	McLean (N01) – Alternating Current (AC) incoming utility feed #1 primary main breaker				Activity Code	TP	RM	OBS						
Job Briefing Employee Name/Title	WMATA Power Personnel		Accompanied Inspector?	Yes	Out Brief Conducted	Yes	Time	0100 - 0500	Outside Shift	Yes						
Related Reports			Related CAPS / Findings													
Related Rules, SOPs, Standards, or Other	Ref		Rule or SOP		Standard		Other / Title		Checklist Reference							
	Hyundai (Manufacturer) Preventive Maintenance Instructions for HVF Vacuum Circuit Breakers (Triennial)															
Inspection Location	Main Track	Yard	Station	OCC	RTA Facility	FTA Office	Track Type	At-grade	Tunnel	Elevated	N/A					
			X								X					
Line(s)	N-Line	Track Number	N/A	Chain Marker and/or Station(s)	From			To								
					McLean (N01) – AC SWBD Room			McLean (N01) – AC SWBD Room								
Vehicles	Head Car Number		Number of Cars		Equipment	AC Hyundai Vacuum Circuit Breaker (1200A, 38 kV, 3 Phase (PH))										
	N/A		N/A													
Description	An FWSO Inspector observed WMATA's power personnel performing preventive maintenance on an incoming utility feed primary main AC Hyundai (Manufacturer) Vacuum Circuit Breaker (1200A, 38 kV, 3 PH) on switchboard # 1 per the manufacturer's preventive maintenance guidelines. The FWSO Inspector also observed WMATA power personnel use the integrated Programmable Logic Controller (PLC) with a Human Machine Interface (HMI) Graphic Touchpad on AC SWBD #1 and tested switches to simulate the loss of one utility feed. This was done to ensure the main tie/main automatic transfer scheme was working properly as well as to verify the remote indication lights located in the Maintenance Operations Center (MOC) for the status (open/close) of the primary main and secondary main breakers were correct. The FWSO Inspector and WMATA personnel did not note any defects.						Number of Defects	0								
							Recommended Finding?	No								
							Remedial Action Required?	No								
							Recommended Reinspection?	No								
Remedial Action	N/A															



Inspection Form

FOIA Exemption: All (b)(6)

Form FTA-IR-1

United States Department of Transportation
Federal Transit Administration

Agency/Department Information

Inspection Date	YYYY	MM	DD	Report Number	20170907-WMATA-AG-2		
	2017	09	07				
Rail Agency Name	Washington Metropolitan Area Transit Authority			Rail Agency Department	TRPM	Sub- Department	
Rail Agency Department Contact Information	Name		Email		Office Phone		Mobile Phone
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
Inspection Location	K-Line, Track 2, West Falls Church (K06) to East Falls Church (K05)						

Inspection Summary

Inspection Activity #	1	2	3	4	5	6
Activity Code	TP-JSB-OBS	TP-WI-OBS				
Inspection Units	1	1				
Inspection Subunits	1	1				
Defects (Number)	0	11				
Recommended Finding	No	Yes				
Remedial Action Required ¹	No	Yes				
Recommended Reinspection	No	Yes				

Activity Summaries

Inspection Activity #	1	Inspection Subject					Job Safety Briefing			Activity Code		TP	JSB	OBS
Job Briefing Employee Name/Title	TRPM RWIC					Accompanied Inspector?	Yes	Out Brief Conducted	Yes	Time	1000-1500	Outside Shift	No	
Related Reports	N/A					Related CAPS / Findings		N/A						
Related Rules, SOPs, Standards, or Other	Ref		Rule or SOP			Standard			Other / Title		Checklist Reference			
	RWPM		R-17-02											
	MSRPH		R-17-03											
Inspection Location	Main Track	Yard	Station	OCC	RTA Facility	FTA Office	Track Type	At-grade	Tunnel	Elevated	N/A			
	X							X		X				
Line(s)	K-Line	Track Number	Track 2	Chain Marker and/or Station(s)	From			To						
					West Falls Church (K06)			East Falls Church (K05)						
Vehicles	Head Car Number		Number of Cars		Equipment	N/A								
	N/A		N/A											

¹ The rail transit agency must provide FTA 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 FTA verification inspections to ensure corrections are sufficient and effective.

Inspector in Charge - Signature	ADAM ANTHONY GIOVANDO		Digitally signed by ADAM ANTHONY GIOVANDO DN: c=US, o=U.S. Government, ou=FRA FRAFTWorthTX, ou=DOT FRAFTWorthTX, cn=ADAM ANTHONY GIOVANDO Date: 2017.09.13 14:00:32 -04'00'	Date
Inspector in Charge - Name	Adam Giovando			
Inspection Team	Tino Sahoo			



United States Department of Transportation
Federal Transit Administration

Form FTA-IR-1

Description	FWSO personnel received a job safety briefing from the WMATA roadway worker in charge (RWIC). All personal protective equipment (PPE) and roadway worker protection (RWP) IDs were checked and the working limits were reviewed. The WMATA RWIC covered the nearest hospital and safety rule of the day. The hazards, clearance areas, and communication were used as part of the discussion.	Number of Defects	0
		Recommended Finding?	No
		Remedial Action Required?	No
	In addition to the required PPE, the Advanced Mobile Flagger (AMF) had the required equipment and was compliant with "WMATA PERMANENT ORDER R-17-03, ADVANCE MOBILE FLAGGER, (FRIDAY APRIL 28, 2017)." This equipment consisted of a WMATA-approved flashing amber lantern/E-flare, orange flag (18'x18') calibrated working radio, air horn, and whistle. The AMF did notify the RWIC via positive communication (phone) that he was in place (next station ahead in the direction the mobile crew walked). The flashing amber lantern/E-flare and orange flag had been positioned at the end of the platform (8-car marker or end gate). No exceptions were taken. The FWSO inspector observed a WMATA RWIC (Roadway Worker in Charge) request foul time for one "hot spot" (K/N turnout) encountered during the mobile work crew's cable inspection walk. One hundred percent repeat back did occur on radio communication between the RWIC and the ROCC (Rail Operations Command Center). The RWIC relinquished foul time once mobile work crew completely walked through the "hot spot." No issues/concerns or exceptions taken to RWIC performing his duties. The RWIC complied with WMATA Permanent Order R-17-02. The FWSO Inspector did not note any defects.	Recommended Reinspection?	No
Remedial Action			

Inspection Activity #	2	Inspection Subject					Cable Inspection Observation			Activity Code		TP	WI	PI
Job Briefing Employee Name/Title	TRPM RWIC					Accompanied Inspector?	Yes	Out Brief Conducted	Yes	Time	1000-1500	Outside Shift	No	
Related Reports	N/A					Related CAPS / Findings		N/A						
Related Rules, SOPs, Standards, or Other	Ref		Rule or SOP			Standard			Other / Title		Checklist Reference			
	TRST 1000													
	DD-TP-SSI-013													
	ENGINEERING MODIFICATION INSTRUCTIONS (EMI) FOR JUMPER, EXPANSION, AND TRANSITION POWER CABLES REPLACEMENT SYSTEM WIDE													
Inspection Location	Main Track	Yard	Station	OCC	RTA Facility	FTA Office	Track Type	At-grade	Tunnel	Elevated	N/A			
	X							X		X				
Line(s)	K-Line	Track Number	Track 2	Chain Marker and/or Station(s)			From		To					
							West Falls Church (K06)		East Falls Church (K05)					
Vehicles	Head Car Number		Number of Cars			Equipment		N/A						
Description	FWSO inspector observed WMATA employees perform a cable inspection on track two of the K-Line between West Falls Church (K06) and East Falls Church (K05). The inspector also inspected cable track conditions.							Number of Defects		11				
								Recommended Finding?		Yes				
								Remedial Action Required?		Yes				



	<p>The following non-color-coded defects were observed:</p> <ul style="list-style-type: none">• DD-TP-SSI-013: K2 487+00 – Five orange boot power connection assemblies missing sealing collar.• TRST 1000 Manual, 13.3.14: Third rail cover board missing at K1 516+00.• TRST 1000 Manual, 13.3.14: Third rail cover board missing at K2 511+00.• TRST 1000 Manual, 13.3.14: Third rail cover board missing at K2 509+00.• TRST 1000 Manual, 13.3.14: Third rail cover board missing at K2 507+00.• TRST 1000 Manual, 13.3.14: Third rail cover board missing at K1 500+50.• TRST 1000 Manual, 13.5.14: Third rail cover board missing at K1 496+00.• TRST 1000 Manual, 13.5.14: Third rail cover board missing at K1 493+00.• TRST 1000 Manual, 13.5.7: Third rail cover board missing on whole kicker rail at K1 487+00.• TRST 1000 Manual, 13.3.14: Third rail cover board missing at K1 518+00.• TRST 1000 Manual, 13.3.14: Third rail cover board missing at K1 517+00. <p>Other Notable Observations:</p> <ul style="list-style-type: none">• Heater tape wiring conduit broken and exposed to the elements at K2 511+00.• Cables laying on the ground at K2 509+00.• Cables laying on the ground at K2 508+00.• Cables laying on the ground at K2 and K1 503+00.• Cable too close and touching adjacent orange boot at K2 487+00.• Expansion cables laying on the ground at K2 and K1 473+00.• Expansion cables laying on the ground at K2 463+00.• Cables laying on the ground at K1 439+00.• Cables laying on the ground at K2 416+00.	Recommended Reinspection?	Yes
Remedial Action	<p>To achieve compliance with WMATA's requirements:</p> <ul style="list-style-type: none">• WMATA must replace third rail cover board at K1 518+00.• WMATA must replace third rail cover board at K1 517+00.• WMATA must replace third rail cover board at K1 516+00.• WMATA must replace third rail cover board at K2 511+00.• WMATA must replace third rail cover board at K2 509+00.• WMATA must replace third rail cover board at K2 507+00.• WMATA must replace third rail cover board at K1 500+50.• WMATA must replace third rail cover board at K1 496+00.• WMATA must replace third rail cover board at K1 493+00.• WMATA must replace third rail cover board at K1 487+00.• WMATA must replace sealing collar at K2 487+00.		



Inspection Form

FOIA Exemption: All (b)(6)

Form FTA-IR-1

United States Department of Transportation
Federal Transit Administration

Agency/Department Information

Inspection Date	YYYY	MM	DD	Report Number	20170908-WMATA-AG-1		
	2017	09	08				
Rail Agency Name	Washington Metropolitan Area Transit Authority			Rail Agency Department	TRPM	Sub- Department	
Rail Agency Department Contact Information	Name		Email		Office Phone		Mobile Phone
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
Inspection Location	Duke Street (C97) Traction Power Substation (TPSS) and C1 574+00						

Inspection Summary

Inspection Activity #	1	2	3	4	5	6
Activity Code	TP-JSB-OBS	TP-RM-OBS				
Inspection Units	1	1				
Inspection Subunits	1	1				
Defects (Number)	0	0				
Recommended Finding	No	No				
Remedial Action Required ¹	No	No				
Recommended Reinspection	No	No				

Activity Summaries

Inspection Activity #	1	Inspection Subject					Duke Street (C97) TPSS Safety Briefing			Activity Code		TP	JSB	OBS
Job Briefing Employee Name/Title	WMATA RWIC					Accompanied Inspector?	Yes	Out Brief Conducted	Yes	Time	0100 to 0500	Outside Shift	Yes	
Related Reports	N/A					Related CAPS / Findings		N/A						
Related Rules, SOPs, Standards, or Other	Ref					Rule or SOP		Standard		Other / Title		Checklist Reference		
	RWPM													
Inspection Location	Main Track	Yard	Station	OCC	RTA Facility	FTA Office	Track Type		At-grade	Tunnel	Elevated	N/A		
	X									X				
Line(s)	C-Line	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										
Description	FWSO personnel received a job safety briefing from the WMATA roadway worker in charge (RWIC). All personal protective equipment (PPE) and roadway worker protection (RWP) IDs were checked and the working limits were reviewed. The								Number of Defects		0			
									Recommended Finding?		No			
									Remedial Action Required?		No			

¹ The rail transit agency must provide FTA 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 FTA verification inspections to ensure corrections are sufficient and effective.

Inspector in Charge - Signature	ADAM ANTHONY GIOVANDO		Digitally signed by ADAM ANTHONY GIOVANDO DN: c=US, o=U.S. Government, ou=FRA FRAftWorthTX, ou=DOT FRAftWorthTX, cn=ADAM ANTHONY GIOVANDO Date: 2017.09.13 14:05:37 -04'00'	Date
Inspector in Charge - Name	Adam Giovando		Inspection Team	Tino Sahoo



United States Department of Transportation
Federal Transit Administration

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	WMATA RWIC covered the nearest hospital and safety rule of the day. The hot spots, hazards, clearance areas, communication, and Roadway Access Guide were used as part of the discussion. The FWSO Inspector did not note any defects.							Recommended Reinspection?		No	
Remedial Action	N/A										

Inspection Activity #	2		Inspection Subject				Duke Street (C97) TPSS - Cable Replacement			Activity Code		TP	RM	OBS
Job Briefing Employee Name/Title	WMATA RWIC				Accompanied Inspector?	Yes	Out Brief Conducted	Yes	Time	0100 to 0500	Outside Shift	Yes		
Related Reports	N/A				Related CAPS / Findings			N/A						
Related Rules, SOPs, Standards, or Other	Ref				Rule or SOP		Standard		Other / Title		Checklist Reference			
	ENGINEERING MODIFICATION INSTRUCTIONS (EMI) FOR JUMPER, EXPANSION, AND TRANSITION POWER CABLES REPLACEMENT SYSTEM WIDE (REVISION 2, SEPTEMBER 16, 2016)													
Inspection Location	Main Track	Yard	Station	OCC	RTA Facility	FTA Office	Track Type	At-grade	Tunnel	Elevated	N/A			
	X								X					
Line(s)	C-Line	Track Number			Track 1	Chain Marker and/or Station(s)		From		To				
								Duke Street (C97) TPSS		C1 574+00				
Vehicles	Head Car Number			Number of Cars		Equipment	Power Cables (1000 kcmil, 2 kV)							
	N/A			N/A										
Description	An FWSO Inspector observed WMATA's power department and electrical contractors performing the task of pulling one positive feeder cable 150 feet from the Duke Street (C97) TPSS to track 1 CM 574+00 (C&J Line Portal). The FWSO Inspector and WMATA personnel did not note any defects.							Number of Defects		0				
								Recommended Finding?		No				
								Remedial Action Required?		No				
								Recommended Reinspection?		No				
Remedial Action	N/A													



Inspection Form

FOIA Exemption: All (b)(6)

Form FTA-IR-1

United States Department of Transportation
Federal Transit Administration

Agency/Department Information

Inspection Date	YYYY	MM	DD	Report Number	20170909-WMATA-AG-1		
	2017	09	09				
Rail Agency Name	Washington Metropolitan Area Transit Authority			Rail Agency Department	TRST	Sub- Department	Maintenance
Rail Agency Department Contact Information	Name		Email		Office Phone		Mobile Phone
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
Inspection Location	N-Line, Track 1, Spring Hill (N04) to Wiehle-Reston East (N06).						

Inspection Summary

Inspection Activity #	1	2	3	4	5	6
Activity Code	TRK-JSB-OBS	TRK-WI-PI				
Inspection Units	1	1				
Inspection Subunits	1	1				
Defects (Number)	0	1				
Recommended Finding	No	Yes				
Remedial Action Required ¹	No	Yes				
Recommended Reinspection	No	Yes				

Activity Summaries

Inspection Activity #	1	Inspection Subject					Job Safety Briefing			Activity Code		TRK	JSB	OBS
Job Briefing Employee Name/Title	TRST 669					Accompanied Inspector?	Yes	Out Brief Conducted	Yes	Time	0900-1200	Outside Shift	No	
Related Reports	N/A					Related CAPS / Findings			N/A					
Related Rules, SOPs, Standards, or Other	Ref		Rule or SOP			Standard			Other / Title		Checklist Reference			
	RWPM													
	MSRPH													
Inspection Location	Main Track	Yard	Station	OCC	RTA Facility	FTA Office	Track Type	At-grade	Tunnel	Elevated	N/A			
	X							X						
Line(s)	N-Line		Track Number	Track 1		Chain Marker and/or Station(s)		From		To				
								Spring Hill (N04)		Wiehle-Reston East (N06)				
Vehicles	Head Car Number			Number of Cars		Equipment	N/A							
	N/A			N/A										

¹ The rail transit agency must provide FTA 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 FTA verification inspections to ensure corrections are sufficient and effective.

Inspector in Charge - Signature	ADAM ANTHONY GIOVANDO		Digitally signed by ADAM ANTHONY GIOVANDO DN: c=US, o=U.S. Government, ou=FRA FRAFTWorthTX, ou=DOT FRAFTWorthTX, cn=ADAM ANTHONY GIOVANDO Date: 2017.09.13 13:53:27 -04'00'	Date
Inspector in Charge - Name	Adam Giovando			
Inspection Team	Adam Giovando, Ken Sgroi			



United States Department of Transportation
Federal Transit Administration

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Description	The FWSO Inspectors received a job safety briefing from the roadway worker in charge (RWIC) at Spring Hill (N04) prior to entering the roadway. The briefing covered the type of on-track protection (i.e., Train Approach Warning (TAW)), the working limits, where to clear, known hazards and hotspots, safety rule of the day, location of nearest hospital, a check of personal protective equipment (PPE), and roadway worker protection (RWP) ID.										Number of Defects		0
											Recommended Finding?		No
											Remedial Action Required?		No
											Recommended Reinspection?		No
Remedial Action	N/A												

Inspection Activity #	2	Inspection Subject					Track Walker Observation			Activity Code		TRK	WI	PI
Job Briefing Employee Name/Title	TRST 669			Accompanied Inspector?	Yes	Out Brief Conducted	Yes	Time	0900-1200	Outside Shift	No			
Related Reports	N/A			Related CAPS / Findings			N/A							
Related Rules, SOPs, Standards, or Other	Ref		Rule or SOP			Standard			Other / Title		Checklist Reference			
	TRST 1000													
	MSRPH													
Inspection Location	Main Track	Yard	Station	OCC	RTA Facility	FTA Office	Track Type	At-grade	Tunnel	Elevated	N/A			
	X							X						
Line(s)	N-Line	Track Number	Track 1		Chain Marker and/or Station(s)		From		To					
							Spring Hill (N04)		Wiehle-Reston East (N06)					
Vehicles	Head Car Number		Number of Cars		Equipment		N/A							
	N/A		N/A											
Description	<p>FWSO Inspectors performed a walking track inspection with WMATA compliance employees on track 1 of the N-Line between Spring Hill (N04) and Wiehle-Reston East (N06). Inspectors followed up on previously-issued remedial actions.</p> <p>The following color-coded defect was observed:</p> <ul style="list-style-type: none"> TRST 1000 Manual, 11.5 Track Surface, Table 11-3: A uniform profile deviation of 1 ½ inches was observed at N1 800+40, on the aerial structure approach. This measurement consisted of a 7/8 of an inch static measurement and a 5/8 of an inch under load measurement. (Yellow condition.) 										Number of Defects		1	
											Recommended Finding?		Yes	
											Remedial Action Required?		Yes	
											Recommended Reinspection?		Yes	
Remedial Action	<p>To achieve compliance with WMATA's requirements:</p> <ul style="list-style-type: none"> WMATA must repair the uniform profile deviation at N1 800+40. 													



Photos:



Figures 1 & 2: Churned ballast at the location with a 1 ½" uniform profile deviation. Ballast indents on the sides of the concrete crossties indicate the amount of dynamic movement under loaded operations.



Inspection Form

FOIA Exemption: All (b)(6)

Form FTA-IR-1

United States Department of Transportation
Federal Transit Administration

Agency/Department Information

Inspection Date	YYYY	MM	DD	Report Number	20170909-WMATA-AG-2		
	2017	09	09				
Rail Agency Name	Washington Metropolitan Area Transit Authority			Rail Agency Department	TRST	Sub- Department	TPRO
Rail Agency Department Contact Information	Name		Email		Office Phone		Mobile Phone
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
Inspection Location	A-Line, track 1 and 2, between Twinbrook (A13) and Medical Center (A10)						

Inspection Summary

Inspection Activity #	1	2	3	4	5	6
Activity Code	TRK-JSB-OBS	TRK-WI-PI				
Inspection Units	1	1				
Inspection Subunits	1	1				
Defects (Number)	0	7				
Recommended Finding	No	Yes				
Remedial Action Required ¹	No	Yes				
Recommended Reinspection	No	Yes				

Activity Summaries

Inspection Activity #	1	Inspection Subject					Roadway Worker Protection (RWP) – Job Safety Briefing			Activity Code		TRK	JSB	OBS	
Job Briefing Employee Name/Title	RWIC, TRST Unit #6101					Accompanied Inspector?	No	Out Brief Conducted	No	Time	2200 0300	Outside Shift	No		
Related Reports	N/A					Related CAPS / Findings		N/A							
Related Rules, SOPs, Standards, or Other	Ref		Rule or SOP			Standard		Other / Title			Checklist Reference				
	RWPM														
Inspection Location	Main Track	Yard	Station	OCC	RTA Facility	FTA Office	Track Type	At-grade	Tunnel	Elevated	N/A				
	X		X					X							
Line(s)	A-Line	Track Number	Track 1 and 2	Chain Marker and/or Station(s)	From			To							
					Twinbrook (A13)			Medical Center (A10)							
Vehicles	Head Car Number		Number of Cars		Equipment	N/A									
	N/A		N/A												

¹ The rail transit agency must provide FTA 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 FTA verification inspections to ensure corrections are sufficient and effective.

Inspector in Charge - Signature			Digitally signed by ADAM ANTHONY GIOVANDO DN: c=US, o=U.S. Government, ou=FRA FRAFTWorthTX, ou=DOT FRAFTWorthTX, cn=ADAM ANTHONY GIOVANDO Date: 2017.09.13 13:54:22 -04'00'	Date
Inspector in Charge - Name Adam A. Giovando	Inspection Team Adam Giovando & Ken Sgroi			

Form FTA-IR-1

Version date: 8/26/16



United States Department of Transportation
Federal Transit Administration

Form FTA-IR-1

Description	The job safety briefing was provided by TRST unit #6101 at Twinbrook (A13) briefing table. The briefing was thorough and fully compliant with WMATA's Roadway Worker Protection Manual (RWPM) requirements. It included WMATA level-1 ID check, type of protection, inaccessible track (IT), potential hazards, hot spots and hospital locations, red tag outage number, and safety rule of the day. No exceptions were taken with the job safety briefing.							Number of Defects		0	
								Recommended Finding?		No	
								Remedial Action Required?		No	
								Recommended Reinspection?		No	
Remedial Action	N/A										

Inspection Activity #	2	Inspection Subject	RWP Setup Inspection					Activity Code		TRK	WI	PI
Job Briefing Employee Name/Title	RWIC, TRST Unit #6101			Accompanied Inspector?	No	Out Brief Conducted	No	Time	2200-0300	Outside Shift	No	
Related Reports	N/A			Related CAPS / Findings		N/A						
Related Rules, SOPs, Standards, or Other	Ref		Rule or SOP		Standard		Other / Title		Checklist Reference			
	MSRPH											
	RWPM											
Inspection Location	Main Track	Yard	Station	OCC	RTA Facility	FTA Office	Track Type	At-grade	Tunnel	Elevated	N/A	
	X							X				
Line(s)	A-Line	Track Number	Track 1 and 2	Chain Marker and/or Station(s)	From				To			
					Twinbrook (A13)				Medical Center (A10)			
Vehicles	Head Car Number		Number of Cars		Equipment	N/A						
	N/A		N/A									

Description	FWSO Inspector's performed a walking inspection to inspect roadway worker protection (RWP) setup, for compliance with the Track and Structures (TRST) mobile operations map for weekend shutdown from September 9, 2017 through September 11, 2017. All safety equipment was in place and operational at chain markers A2 700+70 and A1 688+01. Mobile Command Center (MCC) was set up at the Twinbrook (A13) Station. The Red Tag Power Outage Number was: 2017-252-502A. The following non-color-coded defects were observed: <ul style="list-style-type: none"> TRST 1000 Manual, 13.3.15: At A2 668+00, there are six third rail cover boards missing. TRST 1000 Manual, 13.3.15: At A2 657+80, there are two third rail cover boards missing. TRST 1000 Manual, 10.14.3: At A2 649+40, the Emergency Trip Station (ETS) cover was missing on the ETS box. TRST 1000 Manual, 10.14.3: At A2 620+20, the Emergency Trip Station (ETS) cover was missing on the ETS box. TRST 1000 Manual, 7.9.2.5: At A2 595+10, four defective fasteners in a row spanning 143 inches. As geometry was being maintained, this was classified as a maintenance defect per sections 7.9.2.3 and 7.9.2.4 of the TRST 1000 manual. TRST 1000 Manual, 13.3.15: At A2 509+10, there are four third rail cover boards missing. TRST 1000 Manual, 13.3.15: At A2 486+00, there are three third rail cover boards missing. 							Number of Defects		7	
								Recommended Finding?		Yes	
								Remedial Action Required?		Yes	
								Recommended Reinspection?		Yes	
Remedial Action	To achieve compliance with WMATA's Requirements: <ul style="list-style-type: none"> WMATA must install missing cover boards at A2 668+00. WMATA must install missing cover boards at A2 657+80. WMATA must replace the ETS box cover at A2 649+40. WMATA must replace the ETS box cover at A2 620+20. WMATA must replace defective fasteners at A2 595+10. WMATA must install missing cover boards at A2 509+10. WMATA must install missing cover boards at A2 486+00. 										



Inspection Form

FOIA Exemption: All (b)(6)

Form FTA-IR-1

United States Department of Transportation
Federal Transit Administration

Agency/Department Information

Inspection Date	YYYY	MM	DD	Report Number	20170909-WMATA-AG-3		
	2017	09	09				
Rail Agency Name	Washington Metropolitan Area Transit Authority			Rail Agency Department	TRPM	Sub- Department	
Rail Agency Department Contact Information	Name		Email		Office Phone		Mobile Phone
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
Inspection Location	Foggy Bottom-GWU (C04) – Track 1						

Inspection Summary

Inspection Activity #	1	2	3	4	5	6
Activity Code	TP-JSB-OBS	TP-RM-OBS				
Inspection Units	1	1				
Inspection Subunits	1	1				
Defects (Number)	0	0				
Recommended Finding	No	No				
Remedial Action Required ¹	No	No				
Recommended Reinspection	No	No				

Activity Summaries

Inspection Activity #	1	Inspection Subject					Foggy Bottom-GWU (C04) – Safety Briefing			Activity Code		TP	JSB	OBS
Job Briefing Employee Name/Title	WMATA RWIC					Accompanied Inspector?	Yes	Out Brief Conducted	Yes	Time	0200 to 0600	Outside Shift	Yes	
Related Reports						Related CAPS / Findings								
Related Rules, SOPs, Standards, or Other	Ref					Rule or SOP		Standard		Other / Title		Checklist Reference		
	RWPM													
Inspection Location	Main Track	Yard	Station	OCC	RTA Facility	FTA Office	Track Type	At-grade	Tunnel	Elevated	N/A			
	X								X					
Line(s)	C-Line	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										

¹ The rail transit agency must provide FTA 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 FTA verification inspections to ensure corrections are sufficient and effective.

Inspector in Charge - Signature	ADAM ANTHONY GIOVANDO		Digitally signed by ADAM ANTHONY GIOVANDO DN: c=US, o=U.S. Government, ou=FRA FRAFTWorthTX, ou=DOT FRAFTWorthTX, cn=ADAM ANTHONY GIOVANDO Date: 2017.09.18 11:00:47 -04'00'	Date
Inspector in Charge – Name Adam Giovando	Inspection Team Tino Sahoo			



United States Department of Transportation
Federal Transit Administration

Form FTA-IR-1

Description	FWSO personnel received a job safety briefing from the WMATA roadway worker in charge (RWIC). All personal protective equipment (PPE) and roadway worker protection (RWP) IDs were checked and the working limits were reviewed. The WMATA RWIC covered the nearest hospital and safety rule of the day. The hot spots, hazards, clearance areas, communication, and Roadway Access Guide were used as part of the discussion. The FWSO Inspector did not note any defects.	Number of Defects	0
		Recommended Finding?	No
		Remedial Action Required?	No
		Recommended Reinspection?	No
Remedial Action	N/A		

Inspection Activity #	2	Inspection Subject	Foggy Bottom-GWU (C04) - Cable Replacement				Activity Code	TP	RM	OBS						
Job Briefing Employee Name/Title	WMATA RWIC		Accompanied Inspector?	Yes	Out Brief Conducted	Yes	Time	0200 to 0600	Outside Shift	Yes						
Related Reports			Related CAPS / Findings													
Related Rules, SOPs, Standards, or Other	Ref		Rule or SOP	Standard			Other / Title		Checklist Reference							
	ENGINEERING MODIFICATION INSTRUCTIONS (EMI) FOR JUMPER, EXPANSION, AND TRANSITION POWER CABLES REPLACEMENT SYSTEM WIDE (REVISION 2, SEPTEMBER 16, 2016)															
	TRACTION POWER DESIGN DRAWING (DD-TP-SSI-013, REVISION 0, AUGUST 2001)															
Inspection Location	Main Track	Yard	Station	OCC	RTA Facility	FTA Office	Track Type	At-grade	Tunnel	Elevated	N/A					
	X								X							
Line(s)	C-Line	Track Number		Track 1	Chain Marker and/or Station(s)		From		To							
							C1 68+00		C1 68+00							
Vehicles	Head Car Number		Number of Cars		Equipment		Orange boot cable connector assembly									
	N/A		N/A													
Description	The FWSO Inspector observed WMATA's power department and electrical contractors performing the task of replacing an orange boot cable connector assembly that was sliced open by a prime mover (PM). All the adjacent orange boots were secured to the wall to remove them from the dynamic envelope of any train or rail maintenance vehicle (RMV) that traverses the track. The FWSO inspector observed the contractor install the new orange boot cable connector assembly and secure the adjacent orange boots per Traction Power Design Drawing DD-TP-SSI-013, issued August 2001 and Engineering Modification Instruction (EMI) for jumper, expansion, and transition power cables replacement system wide, issued September 16, 2016. The FWSO Inspector and WMATA personnel did not note any defects.						Number of Defects	0								
							Recommended Finding?	No								
							Remedial Action Required?	No								
							Recommended Reinspection?	No								
Remedial Action	N/A															



Inspection Form

FOIA Exemption: All (b)(6)

Form FTA-IR-1

United States Department of Transportation
Federal Transit Administration

Agency/Department Information

Inspection Date	YYYY	MM	DD	Report Number	20170913-WMATA-AG-1		
	2017	09	13				
Rail Agency Name	Washington Metropolitan Area Transit Authority			Rail Agency Department	TRST	Sub- Department	TKIN
Rail Agency Department Contact Information	Name		Email		Office Phone		Mobile Phone
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
Inspection Location	C-Line, Tracks 1 and 2, Metro Center (C01) to Huntington (C15)						

Inspection Summary

Inspection Activity #	1	2	3	4	5	6
Activity Code	TRK-TGV-OBS					
Inspection Units	1					
Inspection Subunits	1					
Defects (Number)	2					
Recommended Finding	Yes					
Remedial Action Required ¹	Yes					
Recommended Reinspection	Yes					

Activity Summaries

Inspection Activity #	1	Inspection Subject					Track Geometry Vehicle Inspection			Activity Code		TRK	TGV	OBS
Job Briefing Employee Name/Title	N/A					Accompanied Inspector?	Yes	Out Brief Conducted	No	Time	2200-0400	Outside Shift	Yes	
Related Reports	N/A					Related CAPS / Findings			N/A					
Related Rules, SOPs, Standards, or Other	Ref		Rule or SOP		Standard			Other / Title		Checklist Reference				
	TRST 1000													
Inspection Location	Main Track	Yard	Station	OCC	RTA Facility	FTA Office	Track Type	At-grade	Tunnel	Elevated	N/A			
	X							X	X	X				
Line(s)	C-Line	Track Number	Tracks 1 and 2	Chain Marker and/or Station(s)	From			To						
					Metro Center (C01)			Huntington (C15)						
Vehicles	Head Car Number		Number of Cars		Equipment	N/A								
	N/A		N/A											

¹ The rail transit agency must provide FTA 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 FTA verification inspections to ensure corrections are sufficient and effective.

Inspector in Charge - Signature	ADAM ANTHONY GIOVANDO		Digitally signed by ADAM ANTHONY GIOVANDO DN: c=US, o=U.S. Government, ou=FRA FRAFTWorthTX, ou=DOT FRAFTWorthTX, cn=ADAM ANTHONY GIOVANDO Date: 2017.09.18 11:09:05 -04'00'	Date
Inspector in Charge - Name	Adam Giovando			
Inspection Team	Mike Vitale			



Description	FWSO Inspectors observed WMATA employees performing geometry testing with the track geometry vehicle (TGV) on tracks 1 and 2 of the C-Line between Metro Center (C01) and Huntington (C15). The following color-coded defects were observed: <ul style="list-style-type: none">TRST 1000, Table 13-2: Third rail elevation measured 1.41 inches above standard at C2 282+60. Multiple collector shoes were noted in this location. Red Condition.TRST 1000, Table 11-2: Track gauge measured 57.3 inches at C2 283+20. The Emergency Response Team (ERT) team was dispatched to install a gauge rod for revenue service. Black Condition.	Number of Defects	2
		Recommended Finding?	Yes
		Remedial Action Required?	Yes
		Recommended Reinspection?	Yes
Remedial Action	To achieve compliance with WMATA's requirements: <ul style="list-style-type: none">WMATA must correct third rail elevation at C2 282+60.WMATA must correct wide gauge condition at C2 283+20.		



Inspection Form

FOIA Exemption: All (b)(6)

Form FTA-IR-1

United States Department of Transportation
Federal Transit Administration

Agency/Department Information

Inspection Date	YYYY	MM	DD	Report Number	20170913-WMATA-AG-2		
	2017	09	13				
Rail Agency Name	Washington Metropolitan Area Transit Authority			Rail Agency Department	TRPM	Sub- Department	
Rail Agency Department Contact Information	Name		Email		Office Phone		Mobile Phone
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
Inspection Location	N1 500+00 to McLean (N01) - Track 1						

Inspection Summary

Inspection Activity #	1	2	3	4	5	6
Activity Code	TP-JSB-OBS	TP-WI-OBS				
Inspection Units	1	1				
Inspection Subunits	1	1				
Defects (Number)	0	0				
Recommended Finding	No	No				
Remedial Action Required ¹	No	No				
Recommended Reinspection	No	No				

Activity Summaries

Inspection Activity #	1	Inspection Subject			McLean (N01) - Job Safety Briefing (Mobile Work Crew)			Activity Code		TP	JSB	OBS
Job Briefing Employee Name/Title	WMATA RWIC			Accompanied Inspector?		Yes	Out Brief Conducted	Yes	Time	1000-1400	Outside Shift	No
Related Reports	N/A			Related CAPS / Findings			N/A					
Related Rules, SOPs, Standards, or Other	Ref			Rule or SOP		Standard		Other / Title		Checklist Reference		
	RWPM			R-17-02								
	MSRPH			R-17-03								
Inspection Location	Main Track	Yard	Station	OCC	RTA Facility	FTA Office	Track Type	At-grade	Tunnel	Elevated	N/A	
	X							X		X		
Line(s)	N-Line	Track Number		Track 1	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									

¹ The rail transit agency must provide FTA 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 FTA verification inspections to ensure corrections are sufficient and effective.

Inspector in Charge - Signature	ADAM ANTHONY GIOVANDO		Digitally signed by ADAM ANTHONY GIOVANDO DN: c=US, o=U.S. Government, ou=FRA FRAFTWorthTX, ou=DOT FRAFTWorthTX, cn=ADAM ANTHONY GIOVANDO Date: 2017.09.18 11:12:33 -04'00'	Date
Inspector in Charge - Name	Adam Giovando		Inspection Team	Tino Sahoo



United States Department of Transportation
Federal Transit Administration

Form FTA-IR-1

Description	<p>FWSO personnel received a job safety briefing from the WMATA roadway worker in charge (RWIC). All personal protective equipment (PPE) and roadway worker protection (RWP) IDs were checked and the working limits were reviewed. The WMATA RWIC covered the nearest hospital and safety rule of the day. The hazards, clearance areas, and communication were used as part of the discussion.</p> <p>In addition to the required PPE, the Advanced Mobile Flagger (AMF) did have the required equipment, and was compliant with "WMATA PERMANENT ORDER R-17-03, ADVANCE MOBILE FLAGGER, (FRIDAY APRIL 28, 2017)." This equipment consisted of WMATA-approved flashing amber lantern/E-flare, orange flag (18"x18") calibrated working radio, air horn, and whistle.</p> <p>The AMF did notify the RWIC via positive communication (phone) that he was in place (next station ahead in the direction the mobile crew walked). The flashing amber lantern /E-flare and the orange flag had been positioned at the end of the platform (8-car marker or end gate). No exceptions were taken.</p> <p>The FWSO Inspector did not note any defects.</p>	Number of Defects	0
		Recommended Finding?	No
		Remedial Action Required?	No
		Recommended Reinspection?	No
Remedial Action	N/A		

Inspection Activity #	2	Inspection Subject	Walking Observation (Cable Inspection)				Activity Code	TP	WI	OBS	
Job Briefing Employee Name/Title	WMATA RWIC		Accompanied Inspector?	Yes	Out Brief Conducted	Yes	Time	1000-1400	Outside Shift	No	
Related Reports	N/A		Related CAPS / Findings		N/A						
Related Rules, SOPs, Standards, or Other	Ref	Rule or SOP	Standard		Other / Title		Checklist Reference				
	TRACTION POWER DESIGN DRAWING (DD-TP-SSI-013, REVISION 0, AUGUST 2001)										
	ENGINEERING MODIFICATION INSTRUCTIONS (EMI) FOR JUMPER, EXPANSION, AND TRANSITION POWER CABLES REPLACEMENT SYSTEM WIDE (REVISION 2, SEPTEMBER 16, 2016)										
Inspection Location	Main Track	Yard	Station	OCC	RTA Facility	FTA Office	Track Type	At-grade	Tunnel	Elevated	N/A
	X							X		X	
Line(s)	N-Line	Track Number	Track 1	Chain Marker and/or Station(s)	From		To				
					N1 500+00		McLean (N01)				
Vehicles	Head Car Number	Number of Cars		Equipment	N/A						
	N/A	N/A									
Description	<p>FWSO inspector observed WMATA employees perform a cable inspection on track 1 of the N-Line between N1 500+00 and McLean (N01). Inspectors also inspected cable conditions.</p> <p>No defects were noted.</p> <p>Notable Observations:</p> <ul style="list-style-type: none"> Expansion cables lying on the ground at N1 529+00. Expansion cables lying on the ground at N1 551+00. Expansion cables lying on the ground at N1 580+00 and N2 580+00. Expansion cables lying on the ground at N1 590+00 and N2 590+00. Expansion cables lying on the ground at N1 614+00 and N2 614+00. 						Number of Defects	0			
							Recommended Finding?	No			
							Remedial Action Required?	No			
							Recommended Reinspection?	No			



Remedial Action	N/A
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Inspection Form

FOIA Exemption: All (b)(6)

Form FTA-IR-1

United States Department of Transportation
Federal Transit Administration

Agency/Department Information

Inspection Date	YYYY	MM	DD	Report Number	20170913-WMATA-AG-3		
	2017	09	13				
Rail Agency Name	Washington Metropolitan Area Transit Authority			Rail Agency Department	TRPM	Sub- Department	
Rail Agency Department Contact Information	Name		Email		Office Phone		Mobile Phone
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
Inspection Location	Tenleytown-AU (A07) – AC Switchboard (SWBD) #1 and #2						

Inspection Summary

Inspection Activity #	1	2	3	4	5	6
Activity Code	TP-JSB-OBS	TP-RM-OBS				
Inspection Units	1	1				
Inspection Subunits	1	1				
Defects (Number)	0	1				
Recommended Finding	No	Yes				
Remedial Action Required ¹	No	Yes				
Recommended Reinspection	No	Yes				

Activity Summaries

Inspection Activity #	1	Inspection Subject	Tenleytown-AU (A07) – Safety Briefing				Activity Code	TP	JSB	OBS	
Job Briefing Employee Name/Title	WMATA Power Personnel			Accompanied Inspector?	Yes	Out Brief Conducted	Yes	Time	0100 - 0500	Outside Shift	Yes
Related Reports	N/A			Related CAPS / Findings	N/A						
Related Rules, SOPs, Standards, or Other	Ref	Rule or SOP			Standard		Other / Title		Checklist Reference		
	RWPM										
Inspection Location	Main Track	Yard	Station	OCC	RTA Facility	FTA Office	Track Type	At-grade	Tunnel	Elevated	N/A
	X		X						X		
Line(s)	A-Line	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								

¹ The rail transit agency must provide FTA 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 FTA verification inspections to ensure corrections are sufficient and effective.

Inspector in Charge - Signature			Digitally signed by ADAM ANTHONY GIOVANDO DN: c=US, o=U.S. Government, ou=FRA FRAftWorthTX, ou=DOT FRAftWorthTX, cn=ADAM ANTHONY GIOVANDO Date: 2017.09.18 11:15:55 -04'00'	Date	
Inspector in Charge – Name	Adam Giovando		Inspection Team	Tino Sahoo	



United States Department of Transportation
Federal Transit Administration

Form FTA-IR-1

Description	FWSO personnel received a job safety briefing from the WMATA power personnel. All personal protective equipment (PPE) and roadway worker protection (RWP) IDs were checked. WMATA power personnel covered the nearest hospital and safety rule of the day. The potential safety hazards were discussed. The FWSO Inspector did not note any defects.	Number of Defects	0
		Recommended Finding?	No
		Remedial Action Required?	No
		Recommended Reinspection?	No
Remedial Action	N/A		

Inspection Activity #	2	Inspection Subject	Tenleytown-AU (A07) – AC Switchgear Corrective Maintenance				Activity Code	TP	RM	OBS						
Job Briefing Employee Name/Title	WMATA Power Personnel		Accompanied Inspector?	Yes	Out Brief Conducted	Yes	Time	0100 - 0500	Outside Shift	Yes						
Related Reports	N/A		Related CAPS / Findings		N/A											
Related Rules, SOPs, Standards, or Other	Ref	Rule or SOP		Standard		Other / Title		Checklist Reference								
	TRST 1000															
Inspection Location	Main Track	Yard	Station	OCC	RTA Facility	FTA Office	Track Type	At-grade	Tunnel	Elevated	N/A					
	X		X						X							
Line(s)	A-Line	Track Number	N/A	Chain Marker and/or Station(s)	From			To								
					Tenleytown-AU (A07), AC SWBD Rooms #1 and #2, A1 256+00			Tenleytown-AU (A07), AC SWBD Rooms #1 and #2, A1 257+00								
Vehicles	Head Car Number		Number of Cars		Equipment	N/A										
	N/A		N/A													
Description	An FWSO Inspector observed WMATA's power personnel performing corrective maintenance on the AC switchgear in AC switchboard rooms #1 and #2. An FWSO Inspector observed WMATA engineering and WMATA power personnel test the main-tie-main automatic transfer scheme using the Human Machine Interface (HMI) on the AC switchgear in both rooms #1 and #2. This ensured the bus tie breakers were working properly. The Central Processing Unit (CPU) for the Programmable Logic Controller (PLC) in AC SWBD room #1 had been replaced and reprogrammed the previous night by WMATA engineering. Testing of that PLC was done tonight. Also, WMATA engineering ensured the PLC was communicating with the Remote Terminal Unit (RTU), which in turn allows WMATA engineering to remotely monitor the status of the PLC. The following new non-color-coded track defect was observed and noted: <ul style="list-style-type: none"> TRST 1000 Manual, 3.2.2.1: Standing water surrounding running rails, 3rd rail post insulators, feeder cables, and invert drain troughs clogged with mud from A1 256+00 to A1 257+00. 						Number of Defects	1								
							Recommended Finding?	Yes								
							Remedial Action Required?	Yes								
							Recommended Reinspection?	Yes								
Remedial Action	To achieve compliance with WMATA's requirements: <ul style="list-style-type: none"> WMATA must mitigate water intrusion, unclog drains, and clean up standing water from A1 256+00 to A1 257+00. 															



Inspection Form

FOIA Exemption: All (b)(6)

Form FTA-IR-1

United States Department of Transportation
Federal Transit Administration

Agency/Department Information

Inspection Date	YYYY	MM	DD	Report Number	20170914-WMATA-AG-1		
	2017	09	14				
Rail Agency Name	Washington Metropolitan Area Transit Authority			Rail Agency Department	TRPM	Sub- Department	
Rail Agency Department Contact Information	Name		Email		Office Phone		Mobile Phone
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
Inspection Location	Braddock Road (C12) - Battery Room						

Inspection Summary

Inspection Activity #	1	2	3	4	5	6
Activity Code	TP-JSB-OBS	TP-RM-OBS				
Inspection Units	1	1				
Inspection Subunits	1	1				
Defects (Number)	0	1				
Recommended Finding	No	Yes				
Remedial Action Required ¹	No	Yes				
Recommended Reinspection	No	Yes				

Activity Summaries

Inspection Activity #	1	Inspection Subject					Braddock Road (C12) – Safety Briefing			Activity Code		TP	JSB	OBS
Job Briefing Employee Name/Title	WMATA Power Personnel					Accompanied Inspector?	Yes	Out Brief Conducted	Yes	Time	1730 to 2130	Outside Shift	Yes	
Related Reports	20170112-WMATA-AD-2					Related CAPS / Findings								
Related Rules, SOPs, Standards, or Other	Ref		Rule or SOP		Standard		Other / Title		Checklist Reference					
Inspection Location	Main Track	Yard	Station	OCC	RTA Facility	FTA Office	Track Type	At-grade	Tunnel	Elevated	N/A			
			X									X		
Line(s)	C-Line	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											

¹ The rail transit agency must provide FTA 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 FTA verification inspections to ensure corrections are sufficient and effective.

Inspector in Charge - Signature	ADAM ANTHONY GIOVANDO		Digitally signed by ADAM ANTHONY GIOVANDO DN: c=US, o=U.S. Government, ou=FRA FRAFTWorthTX, ou=DOT FRAFTWorthTX, cn=ADAM ANTHONY GIOVANDO Date: 2017.09.18 11:48:26 -0400	Date	
Inspector in Charge – Name	Adam Giovando		Inspection Team	Tino Sahoo	

Form FTA-IR-1

Version date: 8/26/16



United States Department of Transportation
Federal Transit Administration

Form FTA-IR-1

Description	<p>FWSO personnel received a job safety briefing from the WMATA power personnel. All personal protective equipment (PPE) and roadway worker protection (RWP) IDs were checked. WMATA power personnel covered the nearest hospital and safety rule of the day. The potential for chemical burns, electrical shock, and explosion hazard was clearly articulated when working with batteries. An acid resistant apron, rubber gloves, and safety glasses were worn by all personnel present; including the FTA inspector. Fully insulated tools were used by WMATA electricians.</p> <p>The FWSO Inspector did not note any defects.</p>	Number of Defects	0
		Recommended Finding?	No
		Remedial Action Required?	No
		Recommended Reinspection?	No
Remedial Action	N/A		

Inspection Activity #	2	Inspection Subject				Braddock Road (C12) – Battery Bank Preventive Maintenance (PM)				Activity Code		TP	RM	OBS			
Job Briefing Employee Name/Title	WMATA Power Personnel				Accompanied Inspector?		Yes		Out Brief Conducted		Yes		Time		1730 to 2130	Outside Shift	Yes
Related Reports	20170112-WMATA-AD-2				Related CAPS / Findings				Remedial Action ID #1125								
Related Rules, SOPs, Standards, or Other	Ref				Rule or SOP		Standard				Other / Title			Checklist Reference			
	WMATA Preventive Maintenance Inspection for Bi-Annual Battery Maintenance; Effective June 1, 2012																
Inspection Location	Main Track	Yard	Station	OCC	RTA Facility	FTA Office	Track Type	At-grade		Tunnel		Elevated		N/A			
			X											X			
Line(s)	C-Line		Track Number		N/A		Chain Marker and/or Station(s)		From			To					
									Braddock Road (C12), Battery Room			Braddock Road (C12), Battery Room					
Vehicles	Head Car Number			Number of Cars			Equipment	Round Cell Lead Acid Batteries – Lucent (Manufacturer) Type List1S									
	N/A			N/A													
Description	<p>An FWSO Inspector observed WMATA's power personnel performing preventive maintenance on a 60-cell battery bank which was connected to the Uninterruptible Power Supply (UPS) in the adjacent Alternating Current (AC) Switchboard (SWBD) Room.</p> <p>The FWSO Inspector observed WMATA personnel perform the preventive maintenance per the Engineering Modification Instruction (EMI), “WMATA Preventive Maintenance Inspection for Bi-Annual Battery Maintenance; Effective June 1, 2012.” This PMI covers the three different types of batteries present in the system but has not been officially approved by WMATA.</p> <p>The following non-color-coded defect was observed: The FWSO inspector and WMATA personnel did note that the "+" to ground and "-" to ground voltages for the battery bank measured outside tolerances. WMATA power personnel logged the issue and will create a work order to troubleshoot and rectify the voltage variation in conjunction with a dedicated WMATA UPS crew.</p>								Number of Defects				1				
									Recommended Finding?				Yes				
									Remedial Action Required?				Yes				
									Recommended Reinspection?				Yes				
Remedial Action	To achieve compliance with WMATA’s requirements: <ul style="list-style-type: none">WMATA must bring positive and negative to ground voltages within the Braddock Road battery room back into tolerance with WMATA standard.																



Inspection Form

FOIA Exemption: All (b)(6)

Form FTA-IR-1

United States Department of Transportation
Federal Transit Administration

Agency/Department Information

Inspection Date	YYYY	MM	DD	Report Number	20170917-WMATA-AG-1		
	2017	09	17				
Rail Agency Name	Washington Metropolitan Area Transit Authority			Rail Agency Department	TRPM	Sub- Department	
Rail Agency Department Contact Information	Name		Email		Office Phone		Mobile Phone
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
Inspection Location	Fisher Ave. (K06) Traction Power Substation (TPSS)						

Inspection Summary

Inspection Activity #	1	2	3	4	5	6
Activity Code	TP-JSB-OBS	TP-RM-OBS				
Inspection Units	1	1				
Inspection Subunits	1	1				
Defects (Number)	0	0				
Recommended Finding	No	No				
Remedial Action Required ¹	No	No				
Recommended Reinspection	No	No				

Activity Summaries

Inspection Activity #	1	Inspection Subject						Job Safety Briefing			Activity Code		TP	JSB	OBS
Job Briefing Employee Name/Title	WMATA TRPM Personnel						Accompanied Inspector?	Yes	Out Brief Conducted	Yes	Time	0900-1400	Outside Shift	Yes	
Related Reports	N/A						Related CAPS / Findings			N/A					
Related Rules, SOPs, Standards, or Other	Ref		Rule or SOP			Standard			Other / Title		Checklist Reference				
	RWPM														
Inspection Location	Main Track	Yard	Station	OCC	RTA Facility	FTA Office	Track Type	At-grade	Tunnel	Elevated	N/A				
			X									X			
Line(s)	K-Line	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												

¹ The rail transit agency must provide FTA 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 FTA verification inspections to ensure corrections are sufficient and effective.

Inspector in Charge - Signature	ADAM ANTHONY GIOVANDO		Digitally signed by ADAM ANTHONY GIOVANDO DN: c=US, o=U.S. Government, ou=FRA FRAftWorthTX, ou=DOT FRAftWorthTX, cn=ADAM ANTHONY GIOVANDO Date: 2017.09.21 22:27:04 -04'00'	Date
Inspector in Charge - Name	Adam Giovando		Inspection Team	Tino Sahoo

Form FTA-IR-1

Version date: 8/26/16



United States Department of Transportation
Federal Transit Administration

Form FTA-IR-1

Description	FWSO personnel received a job safety briefing from the WMATA power personnel. All personal protective equipment (PPE) and roadway worker protection (RWP) IDs were checked. WMATA power personnel covered the nearest hospital and safety rule of the day. The FWSO Inspector did not note any defects.	Number of Defects	0
		Recommended Finding?	No
		Remedial Action Required?	No
		Recommended Reinspection?	No
Remedial Action	N/A		

Inspection Activity #	2	Inspection Subject	Preventive Maintenance (PM) Observation				Activity Code	TP	RM	OBS						
Job Briefing Employee Name/Title	WMATA Power Personnel		Accompanied Inspector?	Yes	Out Brief Conducted	Yes	Time	0900-1400	Outside Shift	Yes						
Related Reports	N/A		Related CAPS / Findings		N/A											
Related Rules, SOPs, Standards, or Other	Ref	Rule or SOP	Standard		Other / Title			Checklist Reference								
	WMATA PREVENTIVE MAINTENANCE INSPECTION FOR OVERCURRENT RELAYS 34.5 AND 13.8 kV ALTERNATING CURRENT (AC) SYSTEMS 728/1090 DAY INSPECTION (REV. 2, June 21, 2013)															
	ABB (Manufacturer Leaflet) 41-101U, Type CO-9 HILO Relay for (50/51) Overcurrent Relay															
Inspection Location	Main Track	Yard	Station	OCC	RTA Facility	FTA Office	Track Type	At-grade	Tunnel	Elevated	N/A					
			X								X					
Line(s)	K-Line	Track Number	N/A	Chain Marker and/or Station(s)	From			To								
					Fisher Ave. (K06) TPSS			Fisher Ave. (K06) TPSS								
Vehicles	Head Car Number		Number of Cars		Equipment	(50/51) Alternating Current (AC) Overcurrent Relays										
	N/A		N/A													
Description	An FWSO Inspector observed WMATA's power personnel performing preventive maintenance on overcurrent relays on AC switchgear cabinets/cubicles (incoming utility feed #1 breaker, incoming utility feed #2 breaker, tie-breaker, rectifier transformer breaker #1, and rectifier transformer breaker #2). Relays were removed from AC switchgear (SWGR) cubicles and tested for proper functionality and calibrated using a relay test apparatus. WMATA engineering dictates the proper settings and parameters that the relays are to be set to for each location. The FWSO Inspector observed WMATA personnel perform the preventive maintenance per the Preventive Maintenance Instruction (PMI), "WMATA PREVENTIVE MAINTENANCE INSPECTION FOR OVERCURRENT RELAYS 34.5 & 13.8 kV AC SYSTEMS 728/1090 DAY INSPECTION; Effective June 21, 2013." The FWSO Inspector did not note any defects.						Number of Defects		0							
							Recommended Finding?		No							
							Remedial Action Required?		No							
							Recommended Reinspection?		No							
Remedial Action	N/A															



Inspection Form

FOIA Exemption: All (b)(6)

Form FTA-IR-1

United States Department of Transportation
Federal Transit Administration

Agency/Department Information

Inspection Date	YYYY	MM	DD	Report Number	20170918-WMATA-AG-1		
	2017	09	18				
Rail Agency Name	Washington Metropolitan Area Transit Authority			Rail Agency Department	TRPM	Sub- Department	
Rail Agency Department Contact Information	Name		Email		Office Phone		Mobile Phone
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
Inspection Location	Fisher Ave. (K06) Traction Power Substation (TPSS)						

Inspection Summary

Inspection Activity #	1	2	3	4	5	6
Activity Code	TP-JSB-OBS	TP-RM-OBS				
Inspection Units	1	1				
Inspection Subunits	1	1				
Defects (Number)	0	0				
Recommended Finding	No	No				
Remedial Action Required ¹	No	No				
Recommended Reinspection	No	No				

Activity Summaries

Inspection Activity #	1	Inspection Subject					Job Safety Briefing			Activity Code		TP	JSB	OBS
Job Briefing Employee Name/Title	WMATA TRPM Personnel					Accompanied Inspector?	Yes	Out Brief Conducted	Yes	Time	1000-1400	Outside Shift	No	
Related Reports	N/A					Related CAPS / Findings		N/A						
Related Rules, SOPs, Standards, or Other	Ref		Rule or SOP			Standard			Other / Title		Checklist Reference			
	RWPM													
Inspection Location	Main Track	Yard	Station	OCC	RTA Facility	FTA Office	Track Type	At-grade	Tunnel	Elevated	N/A			
			X									X		
Line(s)	K-Line	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											

¹ The rail transit agency must provide FTA 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 FTA verification inspections to ensure corrections are sufficient and effective.

Inspector in Charge - Signature	 ADAM ANTHONY GIOVANDO		Digitally signed by ADAM ANTHONY GIOVANDO DN: c=US, o=U.S. Government, ou=FRA FRAFTWorthTX, ou=DOT FRAFTWorthTX, cn=ADAM ANTHONY GIOVANDO Date: 2017.09.21 22:30:49 -04'00'	Date	
Inspector in Charge - Name	Adam Giovando		Inspection Team		Tino Sahoo



United States Department of Transportation
Federal Transit Administration

Form FTA-IR-1

Description	<p>FWSO personnel received a job safety briefing from the WMATA power personnel. All personal protective equipment (PPE) and roadway worker protection (RWP) IDs were checked. WMATA power personnel covered the nearest hospital and safety rule of the day.</p> <p>The FWSO Inspector did not note any defects.</p>	Number of Defects	0
		Recommended Finding?	No
		Remedial Action Required?	No
		Recommended Reinspection?	No
Remedial Action	N/A		

Inspection Activity #	2	Inspection Subject	Preventive Maintenance (PM) Observation				Activity Code	TP	RM	OBS	
Job Briefing Employee Name/Title	WMATA Power Personnel		Accompanied Inspector?	Yes	Out Brief Conducted	Yes	Time	1000-1400	Outside Shift	No	
Related Reports	N/A		Related CAPS / Findings		N/A						
Related Rules, SOPs, Standards, or Other	Ref		Rule or SOP		Standard		Other / Title		Checklist Reference		
	WMATA PREVENTIVE MAINTENANCE INSPECTION FOR UNDER/OVER VOLTAGE RELAYS 34.5 & 13.8 kV 720/1090 DAY INSPECTION – REV. 3, SEPTEMBER 8, 2000										
Inspection Location	Main Track	Yard	Station	OCC	RTA Facility	FTA Office	Track Type	At-grade	Tunnel	Elevated	N/A
			X								X
Line(s)	K-Line	Track Number	N/A	Chain Marker and/or Station(s)			From		To		
							Fisher Ave. (K06) TPSS		Fisher Ave. (K06) TPSS		
Vehicles	Head Car Number		Number of Cars		Equipment		(27/59) Alternating Current (AC) Undervoltage Relays				
	N/A		N/A								
Description	<p>An FWSO Inspector observed WMATA's power personnel performing preventive maintenance on undervoltage relays on Alternating Current (AC) switchgear (SWGR) cabinets/cubicles (incoming utility feed #1 breaker and incoming utility feed #2 breaker). Relays were removed from AC SWGR cubicles and tested for proper functionality and calibrated using a relay test apparatus. WMATA engineering dictates the proper settings and parameters that the relays are to be set to for each location.</p> <p>The FWSO Inspector observed WMATA personnel perform the preventive maintenance per the Preventive Maintenance Instruction (PMI): "WMATA PREVENTIVE MAINTENANCE INSPECTION FOR UNDER/OVER VOLTAGE RELAYS 34.5 & 13.8 kV 720/1090 DAY INSPECTION; Effective September 8, 2000."</p> <p>The FWSO Inspector did not note any defects.</p>						Number of Defects	0			
							Recommended Finding?	No			
							Remedial Action Required?	No			
							Recommended Reinspection?	No			
Remedial Action	N/A										



Inspection Form

FOIA Exemption: All (b)(6)

Form FTA-IR-1

United States Department of Transportation
Federal Transit Administration

Agency/Department Information

Inspection Date	YYYY	MM	DD	Report Number	20170919-WMATA-AG-1		
	2017	09	19				
Rail Agency Name	Washington Metropolitan Area Transit Authority			Rail Agency Department	TRST	Sub- Department	TKIN
Rail Agency Department Contact Information	Name		Email		Office Phone		Mobile Phone
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
Inspection Location	C-Line, Track 2, Braddock Road (C12) to National Airport (C10)						

Inspection Summary

Inspection Activity #	1	2	3	4	5	6
Activity Code	TRK-JSB-OBS	TRK-WI-PI				
Inspection Units	1	1				
Inspection Subunits	1	1				
Defects (Number)	0	11				
Recommended Finding	No	Yes				
Remedial Action Required ¹	No	Yes				
Recommended Reinspection	No	Yes				

Activity Summaries

Inspection Activity #	1	Inspection Subject					Job Safety Briefing			Activity Code		TRK	JSB	OBS
Job Briefing Employee Name/Title	TRST 6157					Accompanied Inspector?	Yes	Out Brief Conducted	No	Time	2200-0300	Outside Shift	Yes	
Related Reports	N/A					Related CAPS / Findings		N/A						
Related Rules, SOPs, Standards, or Other	Ref		Rule or SOP			Standard			Other / Title		Checklist Reference			
	RWPM													
Inspection Location	Main Track	Yard	Station	OCC	RTA Facility	FTA Office	Track Type	At-grade	Tunnel	Elevated	N/A			
	X							X	X	X				
Line(s)	C-Line		Track Number	Track 2		Chain Marker and/or Station(s)		From		To				
								Braddock Road (C12)		National Airport (C10)				
Vehicles	Head Car Number			Number of Cars			Equipment	N/A						
	N/A			N/A										

¹ The rail transit agency must provide FTA 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 FTA verification inspections to ensure corrections are sufficient and effective.

Inspector in Charge - Signature	ADAM ANTHONY GIOVANDO		Digitally signed by ADAM ANTHONY GIOVANDO DN: c=US, o=U.S. Government, ou=FRA FRAFTWorthTX, cn=ADAM ANTHONY GIOVANDO Date: 2017.09.21 22:43:03 -04'00'	Date
Inspector in Charge - Name	Adam Giovando			
Inspection Team	Adam Giovando, Mike Vitale			

Form FTA-IR-1

Version date: 8/26/16



United States Department of Transportation
Federal Transit Administration

Form FTA-IR-1

Description	<p>FWSO Inspectors received a job safety briefing from the roadway worker in charge (RWIC) at Braddock Road (C12) prior to entering the roadway. The briefing covered the type of on-track protection (i.e. Train Approach Warning (TAW)), the working limits, where to clear, known hazards and hotspots, the safety rule of the day, location of the nearest hospital, a check of personal protective equipment (PPE), and roadway worker protection (RWP) ID.</p> <p>No exceptions were taken during the briefing.</p>	Number of Defects	0
		Recommended Finding?	No
		Remedial Action Required?	No
		Recommended Reinspection?	No
Remedial Action	N/A		

Inspection Activity #	2	Inspection Subject	Remedial Action Verification				Activity Code		TRK	WI	PI
Job Briefing Employee Name/Title	TRST 6157		Accompanied Inspector?	Yes	Out Brief Conducted	No	Time	2200-0300	Outside Shift	Yes	
Related Reports	20160707-WMATA-RPM-1 20170716-WMATA-RPM-1 20161020-WMATA-CF-1		Related CAPS / Findings		Remedial Action ID #s: 824, 836, 862, 870, 997						
Related Rules, SOPs, Standards, or Other	Ref	Rule or SOP		Standard			Other / Title		Checklist Reference		
	TRST 1000										
Inspection Location	Main Track	Yard	Station	OCC	RTA Facility	FTA Office	Track Type	At-grade	Tunnel	Elevated	N/A
	X							X	X	X	
Line(s)	C-Line	Track Number	Track 2	Chain Marker and/or Station(s)	From			To			
					Braddock Road (C12)			National Airport (C10)			
Vehicles	Head Car Number	Number of Cars		Equipment	N/A						
	N/A	N/A									

Description	<p>FWSO Inspectors performed a track inspection on track 2 of the C-Line between Braddock Road (C12) and National Airport (C10) to inspect track conditions and follow up on previously-issued remedial actions.</p> <p>The following color-coded defects were observed:</p> <ul style="list-style-type: none"> TRST 1000, Table 6-3: Only five non-defective ties were observed within 40 feet at C2 521+00. Black Condition. TRST 1000, Table 6-3: Eight consecutive defective switch ties at C2 520+20, switch 1B. Black Condition. TRST 1000, 9.22.3: Tread of frog is worn greater than 3/8 of an inch at C2 520+20, switch 1B. Red Condition. TRST 1000, Table 7-1: 130 inches between non-defective fasteners at C2 399+80. Black Condition. <p>The following non-color-coded defects were observed:</p> <ul style="list-style-type: none"> TRST 1000, 13.3.14: Missing cover board on kicker rail at C2 520+20. TRST 1000, 13.3.4: Broken 3rd rail anchor arm on kicker rail at C2 520+20. TRST 1000, 3.1.2.5: Emergency Trip Station (ETS) box missing door at C2 485+00. TRST 1000, 13.3.14: Missing cover board at C2 469+70. TRST 1000, 3.1.2.5: ETS box missing door at C2 431+00. TRST 1000, 3.1.2.5: ETS box light out at C1 431+00. TRST 1000, 8.12.2: Low ballast condition at right rail tie end at C2 411+50. (See figure 1 below.) <p>The following remedial actions were verified as complete:</p> <ul style="list-style-type: none"> Remedial Action #824: WMATA has replaced 3rd rail insulator at C2 424+00. Remedial Action #836: WMATA has replaced defective fasteners at C2 384+00. Remedial Action #862: WMATA has replaced defective fasteners at C1 380+80. Remedial Action #870: WMATA has replaced ETS door at C1 501+00. Remedial Action #997: WMATA has partially addressed this remedial action. 	Number of Defects	11
		Recommended Finding?	Yes
		Remedial Action Required?	Yes
		Recommended Reinspection?	Yes



	<p>The following items remain open and will be issued individual remedial actions:</p> <ul style="list-style-type: none">• TRST 1000, Table 6-3: Defective tie condition between C2 418+00 and 419+50.• TRST 1000, 6.14.2.1: Defective grout pad at C2 399+00.• TRST 1000, 6.14.2.1: Defective grout pads between C2 383+00 and 382+50.• TRST 1000, 6.14.2.1: Defective grout pad at C1 372+00.		
Remedial Action	<p>To achieve compliance with WMATA's requirements:</p> <ul style="list-style-type: none">• WMATA must replace non-defective ties at C2 521+00.• WMATA must replace defective switch ties at C2 520+20, switch 1B.• WMATA must replace frog at C2 520+20, switch 1B.• WMATA must replace defective fasteners at C2 399+80.• WMATA must replace missing cover board on kicker rail at C2 520+20.• WMATA must replace broken 3rd rail anchor arm on kicker rail at C2 520+20.• WMATA must replace missing door on ETS box at C2 485+00.• WMATA must replace missing cover board at C2 469+70.• WMATA must replace missing door on ETS box at C2 431+00.• WMATA must repair light on ETS box at C1 431+00.• WMATA must correct low ballast condition at right rail tie end at C2 411+50.• WMATA must replace defective ties between C2 418+00 and 419+50.• WMATA must replace defective grout pad at C2 399+00.• WMATA must replace defective grout pads between C2 383+00 and 382+50.• WMATA must replace defective grout pad at C1 372+00.		

Photos:



Figure 1: Low ballast condition at right rail tie end at C2 411+50. Ballast 8 inches below tie end.



Inspection Form

FOIA Exemption: All (b)(6)

Form FTA-IR-1

United States Department of Transportation
Federal Transit Administration

Agency/Department Information

Inspection Date	YYYY	MM	DD	Report Number	20170919-WMATA-AG-2		
	2017	09	19				
Rail Agency Name	Washington Metropolitan Area Transit Authority			Rail Agency Department	TRPM	Sub- Department	
Rail Agency Department Contact Information	Name		Email		Office Phone		Mobile Phone
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
Inspection Location	C and J-Lines, Track 1, King Street (C13) to Van Dorn Street (J02)						

Inspection Summary

Inspection Activity #	1	2	3	4	5	6
Activity Code	TP-JSB-OBS	TP-WI-OBS				
Inspection Units	1	1				
Inspection Subunits	1	1				
Defects (Number)	0	4				
Recommended Finding	No	Yes				
Remedial Action Required ¹	No	Yes				
Recommended Reinspection	No	Yes				

Activity Summaries

Inspection Activity #	1	Inspection Subject					Job Safety Briefing			Activity Code		TP	JSB	OBS
Job Briefing Employee Name/Title	WMATA RWIC					Accompanied Inspector?	Yes	Out Brief Conducted	Yes	Time	1000-1400	Outside Shift	No	
Related Reports	N/A					Related CAPS / Findings			N/A					
Related Rules, SOPs, Standards, or Other	Ref		Rule or SOP			Standard			Other / Title		Checklist Reference			
	RWPM		R-17-02											
	MSRPH		R-17-03											
Inspection Location	Main Track	Yard	Station	OCC	RTA Facility	FTA Office	Track Type	At-grade	Tunnel	Elevated	N/A			
	X							X	X	X				
Line(s)	C- and J-Lines		Track Number	Track 1		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										

¹ The rail transit agency must provide FTA 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 FTA verification inspections to ensure corrections are sufficient and effective.

Inspector in Charge - Signature	ADAM ANTHONY GIOVANDO		Digitally signed by ADAM ANTHONY GIOVANDO DN: c=US, o=U.S. Government, ou=FRA FRAfWorthTX, ou=DOT FRAfWorthTX, cn=ADAM ANTHONY GIOVANDO Date: 2017.09.27 09:00:43 -04'00'	Date
Inspector in Charge - Name	Adam Giovando		Inspection Team	Tino Sahoo



United States Department of Transportation
Federal Transit Administration

Form FTA-IR-1

Description	FWSO personnel received a job safety briefing from the WMATA roadway worker in charge (RWIC). All personal protective equipment (PPE) and roadway worker protection (RWP) IDs were checked and the working limits were reviewed. The WMATA RWIC covered the nearest hospital and safety rule of the day. The hazards, clearance areas, and communication were used as part of the discussion.	Number of Defects	0
		Recommended Finding?	No
		Remedial Action Required?	No
	In addition to the required PPE, the Advanced Mobile Flagger (AMF) did have the required equipment, and was compliant with "WMATA PERMANENT ORDER R-17-03, ADVANCE MOBILE FLAGGER, (FRIDAY APRIL 28, 2017)." This equipment consisted of WMATA-approved flashing amber lantern/E-flare, orange flag (18"x18") calibrated working radio, air horn, and whistle. The AMF did notify the RWIC via positive communication (phone) that he was in place (next station ahead in the direction the mobile crew walked). The flashing amber lantern/E-flare and orange flag had been positioned at the end of the platform (8-car marker or end gate). No exceptions were taken. FWSO inspector observed WMATA RWIC (Roadway Worker in Charge) request foul time for five "hot spots" (portals, curve: restricted view, blind spot, and interlocking) encountered during the mobile work crew's cable inspection walk. One hundred percent repeat back did occur on radio communication between the RWIC and the Rail Operations Command Center (ROCC). The RWIC relinquished foul time once mobile work crew completely walked through the "hot spot." No issues/concerns or exceptions were taken to RWIC performing his duties. The RWIC was compliant with WMATA PERMANENT ORDER R-17-02 GRANTING FOUL TIME (FRIDAY, APRIL 28, 2017). The FWSO Inspector did not note any defects.	Recommended Reinspection?	No
Remedial Action	N/A		

Inspection Activity #	2	Inspection Subject	Walking Observation (Cable Inspection)				Activity Code	TP	WI	OBS	
Job Briefing Employee Name/Title	WMATA RWIC		Accompanied Inspector?	Yes	Out Brief Conducted	Yes	Time	1000-1400	Outside Shift	No	
Related Reports	N/A		Related CAPS / Findings	N/A							
Related Rules, SOPs, Standards, or Other	Ref	Rule or SOP		Standard		Other / Title		Checklist Reference			
	TRST 1000										
	DD-TP-SSI-013										
	ENGINEERING MODIFICATION INSTRUCTIONS (EMI) FOR JUMPER, EXPANSION, AND TRANSITION POWER CABLES REPLACEMENT SYSTEM WIDE (REVISION 2, SEPTEMBER 16, 2016)										
Inspection Location	Main Track	Yard	Station	OCC	RTA Facility	FTA Office	Track Type	At-grade	Tunnel	Elevated	N/A
	X							X	X	X	
Line(s)	C- and J- Lines	Track Number	Track 1	Chain Marker and/or Station(s)		From		To			
						King Street (C13)		Van Dorn (J02)			
Vehicles	Head Car Number		Number of Cars		Equipment	N/A					
	N/A		N/A								
Description	The following non-color-coded defects were observed: <ul style="list-style-type: none"> TRST 1000 Manual, 13.3.14: Third rail cover board missing at J1 536+00 (Green Condition). TRST 1000 Manual, 13.3.14: Third rail cover board missing on end approach at J1 566+60 (Green Condition). 						Number of Defects	4			
							Recommended Finding?	Yes			
							Remedial Action Required?	Yes			
							Recommended Reinspection?	Yes			



	<ul style="list-style-type: none">• TRST 1000 Manual, 13.3.14: Third rail cover board missing at J1 627+00 (Green Condition).• ENGINEERING MODIFICATION INSTRUCTIONS (EMI) FOR JUMPER, EXPANSION, AND TRANSITION POWER CABLES REPLACEMENT SYSTEM WIDE: J1 607+00 – Expansion cable damaged and on gauge side of the third rail. <p>Other Notable Observations:</p> <ul style="list-style-type: none">• Cables lying on the ground and surrounded by trash and debris at J1 503+00.• Cables lying on the ground and surrounded by trash and debris at J1 506+00.• Cables lying on the ground at J1 515+00.• Cables lying on the ground at J1 524+00.• Cables lying on the ground at J1 536+00.• Cables lying on the ground at J1 537+00.• Cables lying on the ground at J1 538+00.• Cables lying on the ground at J1 551+00.• Cables lying on the ground at J1 562+00.• Cables lying on the ground at J1 566+00.• Cables lying on the ground at J1 575+00.• Cables lying on the ground at J1 593+00.• Cables lying on the ground at J1 607+00 and J2 607+00.• Cables lying on the ground at J1 616+00 and J2 616+00.• Cables lying on the ground at J1 627+00 and J2 627+00.• Cables lying on the ground at J1 672+00 and J2 672+00.• Cables lying on the ground at J1 686+00.• Cables lying on the ground at J1 688+00.		
Remedial Action	<p>To achieve compliance with WMATA's requirements:</p> <ul style="list-style-type: none">• WMATA must replace expansion cable and install cables per EMI at J1 607+00.• WMATA must replace missing cover board at J1 536+00.• WMATA must replace missing cover board at J1 566+60.• WMATA must replace missing cover board at J1 627+00.		

Photos:



Figure 1: J1 607+00 - Expansion cable damaged and on gauge side of the third rail.



Inspection Form

FOIA Exemption: All (b)(6)

Form FTA-IR-1

United States Department of Transportation
Federal Transit Administration

Agency/Department Information

Inspection Date	YYYY	MM	DD	Report Number	20170920-WMATA-AG-1		
	2017	09	20				
Rail Agency Name	Washington Metropolitan Area Transit Authority			Rail Agency Department	TRST	Sub- Department	
Rail Agency Department Contact Information	Name		Email		Office Phone		Mobile Phone
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
Inspection Location	L-Line from L'Enfant Plaza (F03) to Pentagon (C07) – track 1						

Inspection Summary

Inspection Activity #	1	2	3	4	5	6
Activity Code	TRK-RWP-OBS	TRK-WI-PI				
Inspection Units	1	1				
Inspection Subunits	1	1				
Defects (Number)	0	5				
Recommended Finding	No	Yes				
Remedial Action Required ¹	No	Yes				
Recommended Reinspection	No	Yes				

Activity Summaries

Inspection Activity #	1	Inspection Subject					Job Safety Briefing/On-Track Protection			Activity Code		TRK	JSB	OBS
Job Briefing Employee Name/Title	TRST Unit #6269					Accompanied Inspector?	Yes	Out Brief Conducted	Yes	Time	1000 – 1300	Outside Shift	No	
Related Reports	N/A					Related CAPS / Findings		N/A						
Related Rules, SOPs, Standards, or Other	Ref		Rule or SOP			Standard			Other / Title		Checklist Reference			
	RWPM													
	MSRPH													
Inspection Location	Main Track	Yard	Station	OCC	RTA Facility	FTA Office	Track Type	At-grade	Tunnel	Elevated	N/A			
	X							X	X	X				
Line(s)	L-Line	Track Number	Track 1		Chain Marker and/or Station(s)		From		To					
							L'Enfant Plaza (F03)		Pentagon (C07)					
Vehicles	Head Car Number		Number of Cars			Equipment		N/A						
	N/A		N/A											

¹ The rail transit agency must provide FTA 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 FTA verification inspections to ensure corrections are sufficient and effective.

Inspector in Charge - Signature	ADAM ANTHONY GIOVANDO		Digitally signed by ADAM ANTHONY GIOVANDO DN: c=US, o=U.S. Government, ou=FRA FRAFTWorthTX, ou=DOT FRAFTWorthTX, cn=ADAM ANTHONY GIOVANDO Date: 2017.09.21 22:52:01 -04'00'	Date
Inspector in Charge – Name	Adam Giovando			
Inspection Team	Ken Sgroi, Robert Maniuszko			



United States Department of Transportation
Federal Transit Administration

Form FTA-IR-1

Description	<p>The FWSO inspection team received a job safety briefing from the roadway worker in charge (RWIC) at L'Enfant Plaza (F03). The briefing covered the type of on-track protection, Train Approach Warning (TAW), where to clear, known hazards, and hotspots. All personal protective equipment (PPE) was checked as well as roadway worker protection (RWP) IDs.</p> <p>The RWIC provided Advanced Watchman/Lookout #6210 and Advanced Mobile Flagger (AMF) #6121.</p> <p>The FWSO team noted no defects with the job safety briefing or the on-track protections that were provided.</p>	Number of Defects	0
		Recommended Finding?	No
		Remedial Action Required?	No
		Recommended Reinspection?	No
Remedial Action	N/A		

Inspection Activity #	2	Inspection Subject	Track Walking Inspection				Activity Code	TRK	WI	PI	
Job Briefing Employee Name/Title	TRST Unit #6269		Accompanied Inspector?	Yes	Out Brief Conducted	Yes	Time	1000 – 1300	Outside Shift	No	
Related Reports	N/A		Related CAPS / Findings		N/A						
Related Rules, SOPs, Standards, or Other	Ref	Rule or SOP		Standard		Other / Title		Checklist Reference			
	TRST1000										
Inspection Location	Main Track	Yard	Station	OCC	RTA Facility	FTA Office	Track Type	At-grade	Tunnel	Elevated	N/A
	X							X	X	X	
Line(s)	L-Line	Track Number	Track 1	Chain Marker and/or Station(s)		From		To			
			L'Enfant Plaza (F03)			Pentagon (C07)					
Vehicles	Head Car Number		Number of Cars		Equipment	N/A					
	N/A		N/A								

Description	<p>The following color-coded defects were observed:</p> <ul style="list-style-type: none"> • TRST 1000 Manual, 7.7: From L1 CM 107+40 to L1 CM 107+60, the left rail had approximately ½" of pumping and loose fasteners in excess of 120 inches. Black Condition. • TRST 1000 Manual, Table 11-2: At L1 CM 135+00, the gauge measured 57¼" static with an additional ¼" of lateral push. Red Condition. • TRST 1000 Manual, Table 11-2: At L1 CM 162+60, the left rail has evidence of gauge wear, especially at the joint. There is also evidence of 3/8" of movement under load and a static gauge measurement of 56 ¾". A combined 57 1/8". Red Condition. • TRST 1000 Manual, Table 7-1: At L1 CM 086+30, there was 88" between effective fasteners. Green Condition <p>The following non-color-coded defects were observed:</p> <ul style="list-style-type: none"> • TRST 1000, 3.1.2.5: At L1 CM153+00, the Emergency Trip Station (ETS) box had no door and the blue light was not working <p>Other Notable Observations:</p> <ul style="list-style-type: none"> • At L2 CM105+60, five loose fasteners were observed and showed signs of vertical and lateral movement under load. The FWSO Inspectors were not authorized for track 2; this was a visual observation only. • At L1 CM069+70, there was a noticeable dip in the head of the rail where the web showed signs of corrosion. The area was within 6-inches of a factory weld. The web was marked with grease paint dated 2016. • From L1 CM053+00 to L1 CM070+00, the hand-grip bars used to climb out of the roadway were buried under numerous cables. The roadway worker could not identify the hand-grip rails amongst the cables. This presented a hazard to the roadway workers in this section of the tunnel. • At L1 CM56+10, the steps leading from the high safety walk to the low safety walk were degraded with chunks of concrete missing. • At L1 042+00 behind the contact rail end approach, there was a pile of debris. 	Number of Defects	5
		Recommended Finding?	Yes
		Remedial Action Required?	Yes
		Recommended Reinspection?	Yes



Remedial Action

To achieve compliance with WMATA's requirements:

- WMATA must correct the loose fasteners and pumping rail from L1 107+40 to 107+60.
- WMATA must correct the gauge condition identified at L1 135+00.
- WMATA must correct the noneffective fasteners at L1 86+30.
- WMATA must repair the conditions causing the gauge wear and 3/8" of movement at L1 CM162+60.
- WMATA must repair the ETS box at L1 CM153+00.

Photo:



Figure 1: Safety Walk Stairs. Note exposed rebar, crumbled step and displaced step edge.



Inspection Form

FOIA Exemption: All (b)(6)

Form FTA-IR-1

United States Department of Transportation
Federal Transit Administration

Agency/Department Information

Inspection Date	YYYY	MM	DD	Report Number	20170921-WMATA-AG-1		
	2017	09	21				
Rail Agency Name	Washington Metropolitan Area Transit Authority			Rail Agency Department	TRST	Sub- Department	TKIN
Rail Agency Department Contact Information	Name		Email		Office Phone		Mobile Phone
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
Inspection Location	C and J-Lines, Track 1, King Street (C13) to J1 642+00						

Inspection Summary

Inspection Activity #	1	2	3	4	5	6
Activity Code	TRK-JSB-OBS	TRK-WI-PI				
Inspection Units	1	1				
Inspection Subunits	1	1				
Defects (Number)	0	8				
Recommended Finding	No	Yes				
Remedial Action Required ¹	No	Yes				
Recommended Reinspection	No	Yes				

Activity Summaries

Inspection Activity #	1	Inspection Subject					Job Safety Briefing			Activity Code		TRK	JSB	OBS
Job Briefing Employee Name/Title	TRST 6269					Accompanied Inspector?	Yes	Out Brief Conducted	Yes	Time	1000 1400	Outside Shift	Yes	
Related Reports	N/A					Related CAPS / Findings			N/A					
Related Rules, SOPs, Standards, or Other	Ref		Rule or SOP		Standard		Other / Title		Checklist Reference					
	RWPM													
Inspection Location	Main Track	Yard	Station	OCC	RTA Facility	FTA Office	Track Type	At-grade	Tunnel	Elevated	N/A			
	X		X					X	X	X				
Line(s)	C and J-Lines		Track Number	Track 1	Chain Marker and/or Station(s)		From		To					
							King Street (C13)		J1 642+00					
Vehicles	Head Car Number		Number of Cars		Equipment		N/A							
	N/A		N/A											

¹ The rail transit agency must provide FTA 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 FTA verification inspections to ensure corrections are sufficient and effective.

Inspector in Charge - Signature	ADAM ANTHONY GIOVANDO		Digitally signed by ADAM ANTHONY GIOVANDO DN: c=US, o=U.S. Government, ou=FRA FRAFTWorthTX, ou=DOT FRAFTWorthTX, cn=ADAM ANTHONY GIOVANDO Date: 2017.09.27 09:03:02 -04'00'	Date
Inspector in Charge - Name	Adam Giovando		Inspection Team	Lee Emard, Ken Sgroi



United States Department of Transportation
Federal Transit Administration

Form FTA-IR-1

Description	TRST unit 6269 conducted a job safety briefing at King Street Station platform. The briefing was fully compliant with WMATA's roadway worker protection (RWP) requirements and included the safety rule of the day, hot spots, ID, personal protective equipment (PPE) verification, type of protection, hazards, and hospital location. The FWSO Inspectors took no exceptions to the job safety briefing.	Number of Defects	0
		Recommended Finding?	No
		Remedial Action Required?	No
		Recommended Reinspection?	No
Remedial Action	N/A		

Inspection Activity #	2	Inspection Subject	Track Inspection				Activity Code	TRK	WI	PI						
Job Briefing Employee Name/Title	TRST 6269 Advance Watchman 6280 AMF 6210		Accompanied Inspector?	Yes	Out Brief Conducted	Yes	Time	1000 1400	Outside Shift	Yes						
Related Reports	20170906-WMATA-AG-1 20170412-WMATA-WP-4		Related CAPS / Findings		Remedial Action ID #: 1288, 1594, 1596											
Related Rules, SOPs, Standards, or Other	Ref	Rule or SOP		Standard		Other / Title		Checklist Reference								
	TRST-1000 rev. 6															
Inspection Location	Main Track	Yard	Station	OCC	RTA Facility	FTA Office	Track Type	At-grade	Tunnel	Elevated	N/A					
	X		X					X	X	X						
	C and J-Lines	Track Number	Track 1	Chain Marker and/or Station(s)	From			To								
					King Street (C13)			J1 642+00								
Vehicles	Head Car Number		Number of Cars		Equipment	N/A										
	N/A		N/A													
	<p>FWSO Inspectors performed a remedial action verification and general observation of track conditions between King Street (C13) and J1 642+00 on track 1.</p> <p>The following non-color-coded defects were observed:</p> <ul style="list-style-type: none"> • TRST 1000, 13.3.15: At J1 566+00, the end approach third rail cover board is missing. • TRST 1000, 3.1.2.5: At J1 568+90, Emergency Trip Station (ETS) light is out at box J-17, track 1. • TRST 1000, 3.1.2.5: At J1 584+90, ETS light is out at box J-21, track 1. • TRST 1000, 3.1.2.5: At J1 600+10, ETS light is out at box J-25, track 1. • TRST 1000, 3.1.2.5: At J1 607+50, ETS light is out at box J-27, track 1. • TRST 1000, 3.1.2.5: At J1 614+90, ETS light is out at box J-29, track 1. • TRST 1000, 3.1.2.5: At J1 622+47, ETS light is out at box J-31, track 1. A remedial action for this defect was addressed in WMATA's approach to Remedial Action 1596. • TRST 1000, 3.1.2.5: At J1 630+03, ETS light is out at box J-33, track 1. A remedial action for this defect was addressed in WMATA's approach to Remedial Action 1594. <p>Other notable observations:</p> <ul style="list-style-type: none"> • From CM J 568+90 to CM J 642+00: The ETS lights were not working on tracks 1 and 2. The ETS lights were already noted as remedial actions from J1 642+00 to Van Dorn Station on inspection report: 20170906-WMATA-AG-1. <p>The following remedial actions were verified as complete:</p> <ul style="list-style-type: none"> • Remedial Action 1288: At J1 592+00, the heat shrink on conduit-stub up was installed. 						Number of Defects	8								
							Recommended Finding?	Yes								
							Remedial Action Required?	Yes								
							Recommended Reinspection?	Yes								
Remedial Action	<p>To achieve compliance with WMATA's requirements:</p> <ul style="list-style-type: none"> • WMATA must install an end cover board on the third rail at CM J1 566+00, track 1. • WMATA must repair the light at CM J1 568+90, box J-17, track 1. • WMATA must repair the light at CM J1 584+90, box J-21, track 1. 															



- | | |
|--|---|
| | <ul style="list-style-type: none">• WMATA must repair the light at CM J1 600+10, box J-25, track 1.• WMATA must repair the light at CM J1 607+50, box J-27, track 1.• WMATA must repair the light at CM J1 614+90, box J-29, track 1. |
|--|---|



Inspection Form

FOIA Exemption: All (b)(6)

Form FTA-IR-1

United States Department of Transportation
Federal Transit Administration

Agency/Department Information

Inspection Date	YYYY	MM	DD	Report Number	20170922-WMATA-AG-1		
	2017	09	22				
Rail Agency Name	Washington Metropolitan Area Transit Authority			Rail Agency Department	TRPM	Sub- Department	
Rail Agency Department Contact Information	Name		Email		Office Phone		Mobile Phone
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
Inspection Location	McPherson Square (C02) – C2 015+00						

Inspection Summary

Inspection Activity #	1	2	3	4	5	6
Activity Code	TP-JSB-OBS	TP-RM-OBS				
Inspection Units	1	1				
Inspection Subunits	1	1				
Defects (Number)	0	0				
Recommended Finding	No	No				
Remedial Action Required ¹	No	No				
Recommended Reinspection	No	No				

Activity Summaries

Inspection Activity #	1	Inspection Subject					Job Safety Briefing			Activity Code		TP	JSB	OBS
Job Briefing Employee Name/Title	WMATA RWIC					Accompanied Inspector?	Yes	Out Brief Conducted	Yes	Time	0100 to 0500	Outside Shift	Yes	
Related Reports	N/A					Related CAPS / Findings		N/A						
Related Rules, SOPs, Standards, or Other	Ref		Rule or SOP			Standard			Other / Title		Checklist Reference			
	RWPM													
Inspection Location	Main Track	Yard	Station	OCC	RTA Facility	FTA Office	Track Type	At-grade	Tunnel	Elevated	N/A			
	X								X					
Line(s)	C-Line		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											

¹ The rail transit agency must provide FTA 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 FTA verification inspections to ensure corrections are sufficient and effective.

Inspector in Charge - Signature			Digitally signed by ADAM ANTHONY GIOVANDO DN: c=US, o=U.S. Government, ou=FRA FRAFTWorthTX, ou=DOT FRAFTWorthTX, cn=ADAM ANTHONY GIOVANDO Date: 2017.09.27 09:03:54 -04'00'	Date
Inspector in Charge – Name	Adam Giovando			
Inspection Team	Tino Sahoo			



United States Department of Transportation
Federal Transit Administration

Form FTA-IR-1

Description	FWSO personnel received a job safety briefing from the WMATA roadway worker in charge (RWIC). All personal protective equipment (PPE) and roadway worker protection (RWP) IDs were checked and the working limits were reviewed. The WMATA RWIC covered the nearest hospital and safety rule of the day. The hot spots, hazards, clearance areas, communication, and Roadway Access Guide were used as part of the discussion. The FWSO Inspector did not note any defects.	Number of Defects	0
		Recommended Finding?	No
		Remedial Action Required?	No
		Recommended Reinspection?	No
Remedial Action	N/A		

Inspection Activity #	2	Inspection Subject					Cable Replacement Observation		Activity Code		TP	RM	OBS
Job Briefing Employee Name/Title	WMATA RWIC					Accompanied Inspector?	Yes	Out Brief Conducted	Yes	Time	0100 to 0500	Outside Shift	Yes
Related Reports	N/A					Related CAPS / Findings		N/A					
Related Rules, SOPs, Standards, or Other	Ref		Rule or SOP		Standard		Other / Title		Checklist Reference				
	ENGINEERING MODIFICATION INSTRUCTIONS (EMI) FOR JUMPER, EXPANSION, AND TRANSITION POWER CABLES REPLACEMENT SYSTEM WIDE (REVISION 2, SEPTEMBER 16, 2016)												
	DD-TP-SSI-013												
Inspection Location	Main Track	Yard	Station	OCC	RTA Facility	FTA Office	Track Type	At-grade	Tunnel	Elevated	N/A		
	X								X				
Line(s)	C-Line	Track Number	Track 2		Chain Marker and/or Station(s)		From		To				
							C2 015+00		C2 015+00				
Vehicles	Head Car Number		Number of Cars		Equipment		N/A						
	N/A		N/A										
Description	<p>The FWSO Inspector observed WMATA's Power Department and electrical contractors performing the task of replacing four transition cables.</p> <p>In WMATA's shop before the night of work, four 30-foot length portions of 1000 kcmil were cut and pre-meggered for the transition cables to be installed.</p> <p>During the inspection, FWSO observed the contractor installing transition cables per the Engineering Modification Instruction (EMI) for jumper, expansion, and transition power cables replacement system wide and Traction Power Design Drawing, DD-TP-SSI-013.</p> <p>The FWSO Inspector and WMATA personnel did not note any defects.</p>							Number of Defects	0				
								Recommended Finding?	No				
								Remedial Action Required?	No				
								Recommended Reinspection?	No				
Remedial Action	N/A												



Inspection Form

FOIA Exemption: All (b)(6)

Form FTA-IR-1

United States Department of Transportation
Federal Transit Administration

Agency/Department Information

Inspection Date	YYYY	MM	DD	Report Number	20170923-WMATA-AG-1		
	2017	09	23				
Rail Agency Name	Washington Metropolitan Area Transit Authority			Rail Agency Department	TRST	Sub- Department	TPRO
Rail Agency Department Contact Information	Name		Email		Office Phone		Mobile Phone
	Andrew Off		[REDACTED]		[REDACTED]		[REDACTED]
	Mik [REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
Inspection Location	Rosslyn Station (C05) Shutdown Area						

Inspection Summary

Inspection Activity #	1	2	3	4	5	6
Activity Code	TRK-JSB-OBS	TRK-RWP-PI	TRK-WI-OBS			
Inspection Units	1	1	1			
Inspection Subunits	1	1	1			
Defects (Number)	0	0	0			
Recommended Finding	No	No	No			
Remedial Action Required ¹	No	No	No			
Recommended Reinspection	No	No	No			

Activity Summaries

Inspection Activity #	1	Inspection Subject					Job Safety Briefing			Activity Code		TRK	JSB	OBS
Job Briefing Employee Name/Title	TRST 6014					Accompanied Inspector?	No	Out Brief Conducted	No	Time	0700 1200	Outside Shift	No	
Related Reports	N/A					Related CAPS / Findings		N/A						
Related Rules, SOPs, Standards, or Other	Ref		Rule or SOP			Standard			Other / Title		Checklist Reference			
	RWPM													
Inspection Location	Main Track	Yard	Station	OCC	RTA Facility	FTA Office	Track Type	At-grade	Tunnel	Elevated	N/A			
	X		X					X	X					
Line(s)	C- and K-Lines	Track Number	Track 2	Chain Marker and/or Station(s)	From			To						
					C2 68+75			C2 184+70 K2 218+80						
Vehicles	Head Car Number		Number of Cars		Equipment	N/A								
	N/A		N/A											

¹ The rail transit agency must provide FTA 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 FTA verification inspections to ensure corrections are sufficient and effective.

Inspector in Charge - Signature	ADAM ANTHONY GIOVANDO		Digitally signed by ADAM ANTHONY GIOVANDO DN: c=US, o=U.S. Government, ou=FRA FRAFTWorthTX, ou=DOT FRAFTWorthTX, cn=ADAM ANTHONY GIOVANDO Date: 2017.09.27 09:04:31 -04'00'	Date
Inspector in Charge - Name	Adam Giovando		Inspection Team	Lee Emard

Form FTA-IR-1

Version date: 8/26/16



United States Department of Transportation
Federal Transit Administration

Form FTA-IR-1

Description	The job safety briefing was provided by TRST 6014 at Rosslyn (C05) briefing table. The briefing was thorough and fully compliant with WMATA's Roadway Worker's Protection Manual (RWPM) requirements. It included WMATA level-1 ID check, type of protection, inaccessible track (IT), potential hazards, hot spots, hospital locations, red tag outage number, and safety rule of the day. No exceptions were taken with the job safety briefing.	Number of Defects	0
		Recommended Finding?	No
		Remedial Action Required?	No
		Recommended Reinspection?	No
Remedial Action	N/A		

Inspection Activity #	2	Inspection Subject	Roadway Worker Protection (RWP) Setup Verification Inspection					Activity Code	TRK	RWP	PI
Job Briefing Employee Name/Title	TRST 6014		Accompanied Inspector?	No	Out Brief Conducted	No	Time	0700 1200	Outside Shift	No	
Related Reports	N/A		Related CAPS / Findings		N/A						
Related Rules, SOPs, Standards, or Other	Ref	Rule or SOP		Standard		Other / Title		Checklist Reference			
	RWPM										
	MSRPH										
Inspection Location	Main Track	Yard	Station	OCC	RTA Facility	FTA Office	Track Type	At-grade	Tunnel	Elevated	N/A
	X							X	X		
Line(s)	C- and K-Lines	Track Number	Track 2	Chain Marker and/or Station(s)	From		To				
					C2 68+75		C2 184+70 K2 218+80				
Vehicles	Head Car Number		Number of Cars		Equipment	N/A					
	N/A		N/A								
Description	The FWSO Inspector performed a walking inspection with WMATA escort TRST 6216 to verify the Roadway Worker Protection (RWP) safety setup in accordance with the TRST Mobile Operations Map for single tracking and WMATA's RWP manual on track 2 of the C- and K-lines between Foggy Bottom (C04) and Arlington Cemetery (C06) and Clarendon (K02). All safety equipment was in place and operational at both ends of work area. The Red Tag Numbers were 2017266A, 2017502A and 217504A. At the working limits located at C2 68+75, a malfunctioning E-flare and overturned cone and flag were observed. Both conditions were corrected by a WMATA escort. At the working limits located at C2 184+70, the cone and flag again were knocked over. This condition was once again corrected by a WMATA escort. No issues were noted at the working limits at K2 218+80. An FWSO Inspector reviewed the work plan and work in progress. All personal protective equipment (PPE) was worn and work in general was being performed in a safe and methodical manner. The FWSO Inspector did not note any defects.						Number of Defects	0			
							Recommended Finding?	No			
							Remedial Action Required?	No			
							Recommended Reinspection?	No			
Remedial Action	N/A										

Inspection Activity #	3	Inspection Subject	Work Zone Observation					Activity Code	TRK	WI	OBS
Job Briefing Employee Name/Title	TRST 6014		Accompanied Inspector?	No	Out Brief Conducted	No	Time	0700 1200	Outside Shift	No	
Related Reports	N/A		Related CAPS / Findings		N/A						
Related Rules, SOPs, Standards, or Other	Ref	Rule or SOP		Standard		Other / Title		Checklist Reference			
	TRST 1000										
Inspection Location	Main Track	Yard	Station	OCC	RTA Facility	FTA Office	Track Type	At-grade	Tunnel	Elevated	N/A



United States Department of Transportation
Federal Transit Administration

Form FTA-IR-1

	X								X		
Line(s)	C-Line	Track Number	Track 2	Chain Marker and/or Station(s)	From		To				
					C2 148+00		C2 144+40				
Vehicles	Head Car Number		Number of Cars		Equipment	N/A					
	N/A		N/A								
Description	The work area included replacement and repair of rail, fasteners, special track work, grout pads, and the repair of a frog point at switch #3. The actual work zone was from C2 148+00 to C2 144+40. The frog initially scheduled for welding repair was found to be unrepairable; a new frog was being sent from the yard for replacement. (See Figure 1 below.) The FWSO Inspector did not note any defects.					Number of Defects		0			
						Recommended Finding?		Yes			
						Remedial Action Required?		Yes			
						Recommended Reinspection?		Yes			
Remedial Action	N/A										

Photos:



Figure 1: Cracked frog point at switch #3.

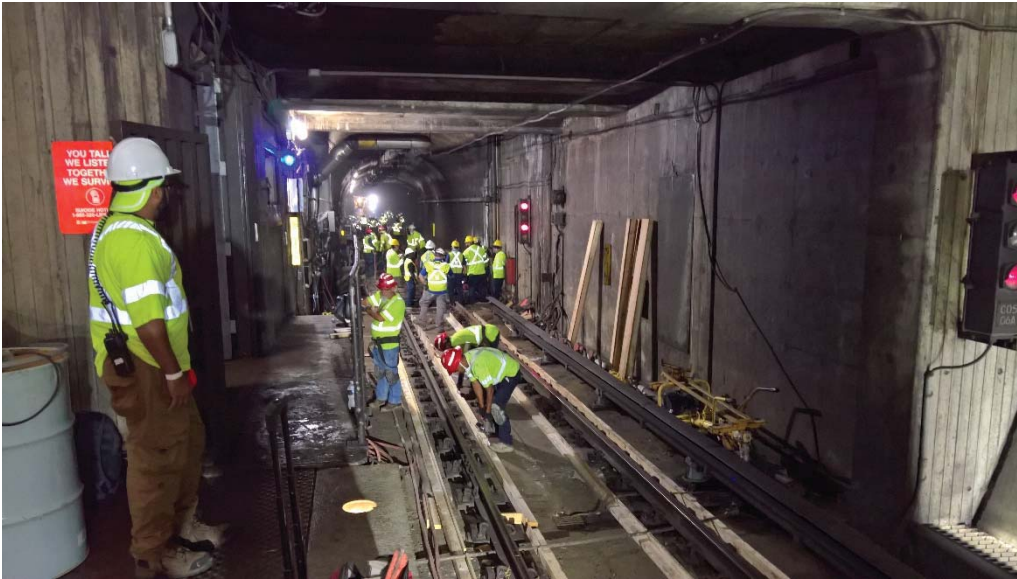


Figure 2: WMATA work crew constructing forms for new grout pads.



Figure 3: Switch components removed from switch #3.



Figure 4: WMATA personnel demolishing grout pads.



Inspection Form

FOIA Exemption: All (b)(6)

Form FTA-IR-1

United States Department of Transportation
Federal Transit Administration

Agency/Department Information

Inspection Date	YYYY	MM	DD	Report Number	20170923-WMATA-AG-2		
	2017	09	23				
Rail Agency Name	Washington Metropolitan Area Transit Authority			Rail Agency Department	TRPM	Sub- Department	
Rail Agency Department Contact Information	Name		Email		Office Phone		Mobile Phone
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
Inspection Location	Metro Center (C01) – Track 1 and Track 2						

Inspection Summary

Inspection Activity #	1	2	3	4	5	6
Activity Code	TP-JSB-OBS	TP-RM-OBS				
Inspection Units	1	1				
Inspection Subunits	1	1				
Defects (Number)	0	0				
Recommended Finding	No	No				
Remedial Action Required ¹	No	No				
Recommended Reinspection	No	No				

Activity Summaries

Inspection Activity #	1	Inspection Subject					Metro Center (C01) – Safety Briefing			Activity Code		TP	JSB	OBS
Job Briefing Employee Name/Title	WMATA RWIC					Accompanied Inspector?	Yes	Out Brief Conducted	Yes	Time	0200-0600	Outside Shift	Yes	
Related Reports	N/A					Related CAPS / Findings		N/A						
Related Rules, SOPs, Standards, or Other	Ref					Rule or SOP		Standard		Other / Title		Checklist Reference		
	RWPM													
Inspection Location	Main Track	Yard	Station	OCC	RTA Facility	FTA Office	Track Type		At-grade	Tunnel	Elevated	N/A		
	X									X				
Line(s)	C-Line	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										

¹ The rail transit agency must provide FTA 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 FTA verification inspections to ensure corrections are sufficient and effective.

Inspector in Charge - Signature	ADAM ANTHONY GIOVANDO		Digitally signed by ADAM ANTHONY GIOVANDO DN: c=US, o=U.S. Government, ou=FRA FRAFWorthTX, ou=DOT FRAFWorthTX, cn=ADAM ANTHONY GIOVANDO Date: 2017.09.29 13:52:05 -04'00'	Date
Inspector in Charge – Name Adam Giovando	Inspection Team Tino Sahoo			



United States Department of Transportation
Federal Transit Administration

Form FTA-IR-1

Description	<p>FWSO personnel received a job safety briefing from the WMATA roadway worker in charge (RWIC). All personal protective equipment (PPE) and roadway worker protection (RWP) IDs were checked and the working limits were reviewed. The WMATA RWIC covered the nearest hospital and safety rule of the day. The hot spots, hazards, clearance areas, communication, and Roadway Access Guide were used as part of the discussion.</p> <p>The FWSO Inspector did not note any defects.</p>	Number of Defects	0
		Recommended Finding?	No
		Remedial Action Required?	No
		Recommended Reinspection?	No
Remedial Action	N/A		

Inspection Activity #	2	Inspection Subject	Metro Center (C01) - Cable Replacement				Activity Code	TP	RM	OBS	
Job Briefing Employee Name/Title	WMATA RWIC		Accompanied Inspector?	Yes	Out Brief Conducted	Yes	Time	0200-0600	Outside Shift	Yes	
Related Reports	N/A		Related CAPS / Findings		N/A						
Related Rules, SOPs, Standards, or Other	Ref	Rule or SOP	Standard		Other / Title			Checklist Reference			
	ENGINEERING MODIFICATION INSTRUCTIONS (EMI) FOR JUMPER, EXPANSION, AND TRANSITION POWER CABLES REPLACEMENT SYSTEM WIDE (REVISION 2, SEPTEMBER 16, 2016)										
	TRACTION POWER DESIGN DRAWING (DD-TP-SSI-013, REVISION 0, AUGUST 2001)										
Inspection Location	Main Track	Yard	Station	OCC	RTA Facility	FTA Office	Track Type	At-grade	Tunnel	Elevated	N/A
	X								X		
Line(s)	C-Line	Track Number	Tracks 1 and 2	Chain Marker and/or Station(s)	From			To			
					C2 15+00 C1 5+00 C2 5+00	C2 15+00 C1 5+00 C2 5+00					
Vehicles	Head Car Number	Number of Cars		Equipment	Orange boot cable connector assembly						
	N/A	N/A									
Description	<p>An FWSO Inspector observed WMATA's power department and electrical contractors performing the task of replacing an orange boot cable connector assembly that was broken, elevating expansion cables (such that they are not lying on the ground), as well as cleaning out the trash and debris surrounding the expansion cables.</p> <p>The FWSO Inspector observed the contractor install the new orange boot cable connector assembly at C2 15+00 and elevate expansion cables from lying on the ground at C1 5+00 and C2 5+00 per "Traction Power Design Drawing DD-TP-SSI-013", issued August 2001, and the "Engineering Modification Instruction (EMI) for jumper, expansion, and transition power cables replacement system-wide", issued September 16, 2016.</p> <p>The FWSO Inspector and WMATA personnel did not note any defects.</p>						Number of Defects	0			
							Recommended Finding?	No			
							Remedial Action Required?	No			
							Recommended Reinspection?	No			
Remedial Action	N/A										



Inspection Form

FOIA Exemption: All (b)(6)

Form FTA-IR-1

United States Department of Transportation
Federal Transit Administration

Agency/Department Information

Inspection Date	YYYY	MM	DD	Report Number	20170926-WMATA-AG-1		
	2017	09	26				
Rail Agency Name	Washington Metropolitan Area Transit Authority			Rail Agency Department	TRST	Sub- Department	TKIN
Rail Agency Department Contact Information	Name		Email		Office Phone		Mobile Phone
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
Inspection Location	J Line, Track 1, Van Dorn Street (J02) to Franconia-Springfield (J03)						

Inspection Summary

Inspection Activity #	1	2	3	4	5	6
Activity Code	TRK-JSB-OBS	TRK-WI-PI				
Inspection Units	1	1				
Inspection Subunits	1	1				
Defects (Number)	0	4				
Recommended Finding	No	Yes				
Remedial Action Required ¹	No	Yes				
Recommended Reinspection	No	Yes				

Activity Summaries

Inspection Activity #	1	Inspection Subject				Job Safety Briefing		Activity Code		TRK	JSB	OBS
Job Briefing Employee Name/Title	TRST 6269				Accompanied Inspector?	Yes	Out Brief Conducted	Yes	Time	1000 1400	Outside Shift	Yes
Related Reports	N/A				Related CAPS / Findings		N/A					
Related Rules, SOPs, Standards, or Other	Ref		Rule or SOP		Standard		Other / Title		Checklist Reference			
	RWPM											
Inspection Location	Main Track	Yard	Station	OCC	RTA Facility	FTA Office	Track Type	At-grade	Tunnel	Elevated	N/A	
	X		X					X		X		
Line(s)	J-Line	Track Number	Track 1		Chain Marker and/or Station(s)		From		To			
							Van Dorn Street (J02)		Franconia-Springfield (J03)			
Vehicles	Head Car Number		Number of Cars		Equipment		N/A					
	N/A		N/A									

¹ The rail transit agency must provide FTA 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 FTA verification inspections to ensure corrections are sufficient and effective.

Inspector in Charge - Signature	ADAM ANTHONY GIOVANDO		Digitally signed by ADAM ANTHONY GIOVANDO DN: c=US, o=U.S. Government, ou=FRA FRAFTWorthTX, ou=DOT FRAFTWorthTX, cn=ADAM ANTHONY GIOVANDO Date: 2017.09.27 14:54:27 -04'00'	Date
Inspector in Charge - Name	Adam Giovando			
Inspection Team	Lee Emard, Ken Sgroi			

Form FTA-IR-1

Version date: 8/26/16



United States Department of Transportation
Federal Transit Administration

Form FTA-IR-1

Description	TRST unit 6269 conducted a job safety briefing at the King Street Station platform. The briefing was fully compliant with WMATA's roadway worker protection (RWP) requirements and included the safety rule of the day, hot spots, ID, personal protective equipment (PPE) verification, type of protection, hazards, and hospital location. The FWSO Inspectors did not note any defects.	Number of Defects	0
		Recommended Finding?	No
		Remedial Action Required?	No
		Recommended Reinspection?	No
Remedial Action	N/A		

Inspection Activity #	2	Inspection Subject	Track Inspection and Remedial Action Verification				Activity Code	TRK	WI	PI	
Job Briefing Employee Name/Title	TRST 6269		Accompanied Inspector?	Yes	Out Brief Conducted	Yes	Time	1000 1400	Outside Shift	Yes	
Related Reports	20170708-WMATA-AG-1 20161116-WMATA-AD-1		Related CAPS / Findings		Remedial Action ID #: 1419,1009 and 1523						
Related Rules, SOPs, Standards, or Other	Ref	Rule or SOP		Standard		Other / Title		Checklist Reference			
	TRST-1000 rev. 6										
Inspection Location	Main Track	Yard	Station	OCC	RTA Facility	FTA Office	Track Type	At-grade	Tunnel	Elevated	N/A
	X		X					X	X	X	
Line(s)	J-Line	Track Number	Track 1	Chain Marker and/or Station(s)	From		To				
					Van Dorn Street (J02)		Franconia-Springfield (J03)				
Vehicles	Head Car Number		Number of Cars		Equipment	N/A					
	N/A		N/A								
Description	<p>FWSO Inspectors performed a remedial action verification and general inspection of track conditions between Van Dorn Street (J02) and Franconia-Springfield (J03) on track 1.</p> <p>The following non-color-coded defects were observed:</p> <ul style="list-style-type: none"> TRST 1000, 13.3.14: At J1 731+00, the end third rail cover board was missing. TRST 1000, 13.3.14: At J1 732+00, the end third rail cover board was missing. TRST 1000, 3.1.2.5: At J1 769+70, the Emergency Trip Station (ETS) light was out at box J-79. TRST 1000, 3.1.2.5: At J1 777+40, the ETS light was out at box J-81. <p>The following remedial actions were verified as complete:</p> <ul style="list-style-type: none"> Remedial Action 1419: At J1 680+00, the ETS light was repaired. Remedial Action 1009: At CM J1 694+00, (25) all repairs were completed. Remedial Action 1523: At J1 772+00, an expansion cable was installed. 						Number of Defects	4			
							Recommended Finding?	Yes			
							Remedial Action Required?	Yes			
							Recommended Reinspection?	Yes			
Remedial Action	<p>To achieve compliance with WMATA's requirements:</p> <ul style="list-style-type: none"> WMATA must install an end cover board on the third rail at J1 731+00. WMATA must install an end cover board on the third rail at J1 732+00. WMATA must repair the light at J1 769+70, box J-79. WMATA must repair the light at J1 777+40, box J-81. 										



Inspection Form

FOIA Exemption: All (b)(6)

Form FTA-IR-1

United States Department of Transportation
Federal Transit Administration

Agency/Department Information

Inspection Date	YYYY	MM	DD	Report Number	20170927-WMATA-AG-1		
	2017	09	27				
Rail Agency Name	Washington Metropolitan Area Transit Authority			Rail Agency Department	TRST	Sub- Department	TKIN
Rail Agency Department Contact Information	Name		Email		Office Phone		Mobile Phone
	Andrew Off		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
Inspection Location	Glenmont Yard (B98), Track Geometry Vehicle (TGV) testing						

Inspection Summary

Inspection Activity #	1	2	3	4	5	6
Activity Code	TRK-JSB-OBS	TRK-TGV-OBS				
Inspection Units	1	1				
Inspection Subunits	1	1				
Defects (Number)	0	0				
Recommended Finding	No	No				
Remedial Action Required ¹	No	No				
Recommended Reinspection	No	No				

Activity Summaries

Inspection Activity #	1	Inspection Subject					Job Safety Briefing			Activity Code		TRK	JSB	OBS
Job Briefing Employee Name/Title	TRST 89					Accompanied Inspector?	Yes	Out Brief Conducted	Yes	Time	0700 1500	Outside Shift	No	
Related Reports	N/A					Related CAPS / Findings		N/A						
Related Rules, SOPs, Standards, or Other	Ref		Rule or SOP			Standard			Other / Title		Checklist Reference			
	RWPM													
Inspection Location	Main Track	Yard	Station	OCC	RTA Facility	FTA Office	Track Type	At-grade	Tunnel	Elevated	N/A			
		X						X						
Line(s)	B-Line		Track Number	Yard Tracks 1-12	Chain Marker and/or Station(s)		From		To					
							Glenmont Yard (B98)		Glenmont Yard (B98)					
Vehicles	Head Car Number			Number of Cars		Equipment	N/A							
	TGV-1			1										

¹ The rail transit agency must provide FTA 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 FTA verification inspections to ensure corrections are sufficient and effective.

Inspector in Charge - Signature	ADAM ANTHONY GIOVANDO		Digitally signed by ADAM ANTHONY GIOVANDO DN: c=US, o=U.S. Government, ou=FRA FRAFTWorthTX, ou=DOT FRAFTWorthTX, cn=ADAM ANTHONY GIOVANDO Date: 2017.09.29 13:54:42 -04'00'	Date
Inspector in Charge - Name	Adam Giovando			
Inspection Team	Alexander Nepa			



United States Department of Transportation
Federal Transit Administration

Form FTA-IR-1

Description	TRST unit 89 conducted a job safety briefing inside the Track Geometry Vehicle (TGV)-1 prior to testing. The briefing was fully compliant with WMATA's roadway worker protection (RWP) requirements and included the safety rule of the day, hot spots, ID, personal protective equipment (PPE) verification, type of protection, hazards, and hospital location. The FWSO Inspector did not note any defects.	Number of Defects	0
		Recommended Finding?	No
		Remedial Action Required?	No
		Recommended Reinspection?	No
Remedial Action	N/A		

Inspection Activity #	2	Inspection Subject	Track Observation					Activity Code		TRK	TGV	OBS
Job Briefing Employee Name/Title	TRST 89		Accompanied Inspector?	Yes	Out Brief Conducted	Yes	Time	0700 1500	Outside Shift	No		
Related Reports	N/A		Related CAPS / Findings		N/A							
Related Rules, SOPs, Standards, or Other	Ref	Rule or SOP		Standard			Other / Title		Checklist Reference			
	TRST-1000, rev. 6											
Inspection Location	Main Track	Yard	Station	OCC	RTA Facility	FTA Office	Track Type	At-grade	Tunnel	Elevated	N/A	
		X						X				
Line(s)	B-Line	Track Number	Yard Tracks 1-12	Chain Marker and/or Station(s)	From			To				
					Glenmont Yard (B98)			Glenmont Yard (B98)				
Vehicles	Head Car Number		Number of Cars		Equipment	TGV-1						
	TGV-1		1									
Description	An FWSO Inspector accompanied WMATA TGV-1 as it performed ultrasonic rail and geometry testing on tracks 1-12 in Glenmont Yard. No black conditions were noted during this testing. Any red color-coded geometry conditions identified were already protected under the mandatory maximum 15 miles per hour (mph) yard speed limit. Other Notable Observations: <ul style="list-style-type: none"> Marginal deteriorating crosstie conditions were observed. Frog point conditions observed demonstrated chipping and wear. 							Number of Defects	0			
								Recommended Finding?	No			
								Remedial Action Required?	No			
								Recommended Reinspection?	No			
Remedial Action	N/A											



Inspection Form

FOIA Exemption: All (b)(6)

Form FTA-IR-1

United States Department of Transportation
Federal Transit Administration

Agency/Department Information

Inspection Date	YYYY	MM	DD	Report Number	20170927-WMATA-AG-2		
	2017	09	27				
Rail Agency Name	Washington Metropolitan Area Transit Authority			Rail Agency Department	TRPM	Sub- Department	
Rail Agency Department Contact Information	Name		Email		Office Phone		Mobile Phone
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
Inspection Location	Friendship Heights (A08) – Alternating Current (AC) Switchboard (SWBD) Room						

Inspection Summary

Inspection Activity #	1	2	3	4	5	6
Activity Code	TP-JSB-OBS	TP-RM-OBS				
Inspection Units	1	1				
Inspection Subunits	1	1				
Defects (Number)	0	1				
Recommended Finding	No	Yes				
Remedial Action Required ¹	No	Yes				
Recommended Reinspection	No	Yes				

Activity Summaries

Inspection Activity #	1	Inspection Subject	Friendship Heights (A08) – Safety Briefing				Activity Code		TP	JSB	OBS
Job Briefing Employee Name/Title	WMATA Power Personnel		Accompanied Inspector?	Yes	Out Brief Conducted	Yes	Time	0100 - 0500	Outside Shift	Yes	
Related Reports	N/A		Related CAPS / Findings		N/A						
Related Rules, SOPs, Standards, or Other	Ref		Rule or SOP		Standard		Other / Title		Checklist Reference		
	RWPM										
Inspection Location	Main Track	Yard	Station	OCC	RTA Facility	FTA Office	Track Type	At-grade	Tunnel	Elevated	N/A
			X								X
Line(s)	A-Line	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								

¹ The rail transit agency must provide FTA 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 FTA verification inspections to ensure corrections are sufficient and effective.

Inspector in Charge - Signature			Digitally signed by ADAM ANTHONY GIOVANDO DN: c=US, o=U.S. Government, ou=FRA FRAFTWorthTX, ou=DOT FRAFTWorthTX, cn=ADAM ANTHONY GIOVANDO Date: 2017.09.29 13:58:15 -04'00'	Date
Inspector in Charge – Name	Adam Giovando			
Inspection Team	Tino Sahoo			



United States Department of Transportation
Federal Transit Administration

Form FTA-IR-1

Description	FWSO personnel received a job safety briefing from the WMATA power personnel. All personal protective equipment (PPE) and roadway worker protection (RWP) IDs were checked. WMATA power personnel covered the nearest hospital and safety rule of the day. The potential safety hazards were discussed. The FWSO Inspector did not note any defects.	Number of Defects	0
		Recommended Finding?	No
		Remedial Action Required?	No
		Recommended Reinspection?	No
Remedial Action	N/A		

Inspection Activity #	2	Inspection Subject	Friendship Heights (A08) – Corrective Maintenance				Activity Code	TP	RM	OBS					
Job Briefing Employee Name/Title	WMATA Power Personnel		Accompanied Inspector?	Yes	Out Brief Conducted	Yes	Time	0100 - 0500	Outside Shift	Yes					
Related Reports	N/A		Related CAPS / Findings		N/A										
Related Rules, SOPs, Standards, or Other	Ref	Rule or SOP		Standard		Other / Title		Checklist Reference							
	GE Bus-Tie-Bus breaker test procedures														
Inspection Location	Main Track	Yard	Station	OCC	RTA Facility	FTA Office	Track Type	At-grade	Tunnel	Elevated	N/A				
			X								X				
Line(s)	A-Line	Track Number	N/A	Chain Marker and/or Station(s)		From		To							
						Friendship Heights (A08) – AC SWBD Room		Friendship Heights (A08) – AC SWBD Room							
Vehicles	Head Car Number		Number of Cars		Equipment	General Electric (GE) AC Switchgear									
	N/A		N/A												
Description	An FWSO Inspector observed WMATA's power personnel performing corrective maintenance on the bus tie-breaker on the General Electric (GE) alternating current (AC) switchgear #1. The FWSO Inspector observed WMATA power personnel do a bus tie-breaker test using test switches to simulate the loss of one utility feed to ensure the main-tie-main automatic transfer scheme was working properly. The bus tie-breaker did not close automatically when the utility feed was dropped out, but the backup generator did come online to feed the emergency loads. The bus tie-breaker was able to be manually closed. There is a separate backup generator and automatic transfer switch (ATS) for each of the two AC switchgear units (#1 and #2). Hence, if either utility feed is lost, backup power will be provided to the emergency loads on each respective switchgear. The following non-color-coded defect was observed: The FWSO Inspector and WMATA personnel did note that the bus tie-breaker did not close automatically while testing the main-tie-main automatic transfer scheme. WMATA power personnel logged the issue and will create a work order to troubleshoot and rectify the automatic closing of the bus tie-breaker if there is a loss of a utility feed.						Number of Defects		1						
							Recommended Finding?		Yes						
							Remedial Action Required?		Yes						
							Recommended Reinspection?		Yes						
Remedial Action	To achieve compliance with WMATA's requirements: <ul style="list-style-type: none"> WMATA must fix automatic closing of the bus tie-breaker if a utility feed is lost on either AC switchgear #1 or #2. 														



Inspection Form

FOIA Exemption: All (b)(6)
Form FTA-IR-1

United States Department of Transportation
Federal Transit Administration

Agency/Department Information

Inspection Date	YYYY	MM	DD	Report Number	20170927-WMATA-AG-3		
	2017	09	27				
Rail Agency Name	Washington Metropolitan Area Transit Authority			Rail Agency Department	TRST	Sub- Department	TKIN
Rail Agency Department Contact Information	Name		Email		Office Phone		Mobile Phone
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
Inspection Location	D-Line, Track 2, Federal Triangle (D01) to Capitol South (D05)						

Inspection Summary

Inspection Activity #	1	2	3	4	5	6
Activity Code	TRK-JSB-OBS	TRK-WI-PI				
Inspection Units	1	1				
Inspection Subunits	1	1				
Defects (Number)	0	11				
Recommended Finding	No	Yes				
Remedial Action Required ¹	No	Yes				
Recommended Reinspection	No	Yes				

Activity Summaries

Inspection Activity #	1	Inspection Subject	Job Safety Briefing				Activity Code	TRK	JSB	OBS	
Job Briefing Employee Name/Title	TRST 6269		Accompanied Inspector?	Yes	Out Brief Conducted	Yes	Time	1000 1400	Outside Shift	Yes	
Related Reports	N/A		Related CAPS / Findings	N/A							
Related Rules, SOPs, Standards, or Other	Ref	Rule or SOP		Standard		Other / Title		Checklist Reference			
	RWPM										
Inspection Location	Main Track	Yard	Station	OCC	RTA Facility	FTA Office	Track Type	At-grade	Tunnel	Elevated	N/A
	X		X						X		
Line(s)	D-Line	Track Number	Track 2	Chain Marker and/or Station(s)		From		To			
						Federal Triangle (D01)		Capitol South (D05)			
Vehicles	Head Car Number		Number of Cars		Equipment	N/A					
	N/A		N/A								

¹ The rail transit agency must provide FTA 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 FTA verification inspections to ensure corrections are sufficient and effective.

Inspector in Charge - Signature			Digitally signed by ADAM ANTHONY GIOVANDO DN: c=US, o=U.S. Government, ou=FRA FRAftWorthTX, ou=DOT FRAftWorthTX, cn=ADAM ANTHONY GIOVANDO Date: 2017.10.04 13:56:12 -04'00'	Date
Inspector in Charge - Name	Adam Giovando			
Inspection Team	Lee Emard, Ken Sgroi			



United States Department of Transportation
Federal Transit Administration

Form FTA-IR-1

Description	TRST unit 6269 conducted a job safety briefing at Federal Triangle (D01) Station platform. The briefing was fully compliant with WMATA's roadway worker protection (RWP) requirements and included the safety rule of the day, hot spots, ID, personal protective equipment (PPE) verification, type of protection, hazards, and hospital location. The FWSO Inspectors took no exceptions to the job safety briefing.	Number of Defects	0
		Recommended Finding?	No
		Remedial Action Required?	No
		Recommended Reinspection?	No
Remedial Action	N/A		

Inspection Activity #	2	Inspection Subject	Track Observation and Remedial Action Verification				Activity Code	TRK	WI	PI	
Job Briefing Employee Name/Title	TRST 6269		Accompanied Inspector?	Yes	Out Brief Conducted	Yes	Time	1000 1400	Outside Shift	Yes	
Related Reports	20170118-WMATA-AG-1		Related CAPS / Findings		Remedial Action ID #: 1119, 1111						
Related Rules, SOPs, Standards, or Other	Ref	Rule or SOP		Standard		Other / Title		Checklist Reference			
	TRST-1000, rev. 6							ID Numbers			
Inspection Location	Main Track	Yard	Station	OCC	RTA Facility	FTA Office	Track Type	At-grade	Tunnel	Elevated	N/A
	X		X						X		
Line(s)	D-Line	Track Number	Track 2	Chain Marker and/or Station(s)	From		To				
					Federal Triangle (D01)		Capitol South (D05)				
Vehicles	Head Car Number		Number of Cars		Equipment	N/A					
	N/A		N/A								

Description	<p>FWSO Inspectors performed a remedial action verification and general inspection of track conditions on track 2 of the D-Line between Federal Triangle (D01) and Capitol South (D05).</p> <p>The following color-coded defects were observed</p> <ul style="list-style-type: none"> TRST 1000, 7.7: Between D2 90+60 and 90+70, eight defective fasteners in a row were observed (Black condition). A 15-mph speed restriction was put in place between Federal Center SW (D04) and Capitol South (D05). <p>The following non-color-coded defects were observed:</p> <ul style="list-style-type: none"> TRST 1000, 13.17.4.1: Between D2 36+00 and 40+00, a relay rail tripping hazard was noted. TRST 1000, 13.17.4.1: Between D2 41+42 and 42+00, a relay rail tripping hazard was noted. TRST 1000, 13.17.4.1: Between D2 43+06 and 43+60, a relay rail stored between the running rail and third rail was noted. (See Figure 1 below.) TRST 1000, 13.3.15: At D2 43+60, the end third rail cover board was missing. TRST 1000, 13.17.4.1: Between D2 43+60 and 53+00, a relay rail tripping hazard was noted. TRST 1000, 13.3.15: At D2 44+00, the end third rail cover board was missing. TRST 1000, 13.3.15: At D2 67+00, the end third rail cover board was missing. TRST 1000, 13.3.15: At D2 87+00, the end third rail cover board was missing. TRST 1000, 13.17.4.1: Between D2 88+00 and 88+20, a relay rail tripping hazard was noted. TRST 1000, 13.3.15: At D2 106+00, the end third rail cover board was missing. 	Number of Defects	11
		Recommended Finding?	Yes
		Remedial Action Required?	Yes
		Recommended Reinspection?	Yes



	<p>Other Notable Observations:</p> <ul style="list-style-type: none">At D2 45+00, over 50% of the end approach ramp has been worn away. (See Figure 2 below.)Deteriorating fastener conditions were noted between Federal Center SW (D04) and Capitol South (D05). <p>The following remedial actions were verified as complete:</p> <ul style="list-style-type: none">Remedial Action ID #1119: At D2 36+52, cables have been elevated.Remedial Action ID #1111: At D2 36+52, cables have been replaced.		
Remedial Action	<p>To achieve compliance with WMATA's requirements:</p> <ul style="list-style-type: none">WMATA must replace defected fasteners between D2 90+60 and 90+70.WMATA must remove relay rail between D2 36+00 and 40+00.WMATA must remove relay rail between D2 41+42 and 42+00.WMATA must remove relay rail between D2 43+06 and 43+60.WMATA must install an end cover board on the third rail at D2 43+60.WMATA must remove relay rail between D2 43+60 and 53+00.WMATA must install an end cover board on the third rail at D2 44+00.WMATA must install an end cover board on the third rail at D2 67+00.WMATA must install an end cover board on the third rail at D2 87+00.WMATA must remove relay rail between D2 88+00 and 88+20.WMATA must install an end cover board on the third rail at D2 106+00.		

Photos:



Figure 1: Relay rail stored between running rail and third rail between D2 43+06 and 43+60.



Figure 2: Wear on end approach at D2 45+00.



Inspection Form

FOIA Exemption: All (b)(6)

Form FTA-IR-1

United States Department of Transportation
Federal Transit Administration

Agency/Department Information

Inspection Date	YYYY	MM	DD	Report Number	20170928-WMATA-AG-1		
	2017	09	28				
Rail Agency Name	Washington Metropolitan Area Transit Authority			Rail Agency Department	TRST	Sub- Department	TKIN
Rail Agency Department Contact Information	Name		Email		Office Phone		Mobile Phone
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
Inspection Location	Brentwood Yard (B99), Track Geometry Vehicle (TGV) testing						

Inspection Summary

Inspection Activity #	1	2	3	4	5	6
Activity Code	TRK-JSB-OBS	TRK-TGV-OBS				
Inspection Units	1	1				
Inspection Subunits	1	1				
Defects (Number)	0	0				
Recommended Finding	No	No				
Remedial Action Required ¹	No	No				
Recommended Reinspection	No	No				

Activity Summaries

Inspection Activity #	1	Inspection Subject					Job Safety Briefing			Activity Code		TRK	JSB	OBS
Job Briefing Employee Name/Title	TRST 89					Accompanied Inspector?	Yes	Out Brief Conducted	Yes	Time	0700 1500	Outside Shift	No	
Related Reports	N/A					Related CAPS / Findings		N/A						
Related Rules, SOPs, Standards, or Other	Ref		Rule or SOP			Standard			Other / Title		Checklist Reference			
	RWPM													
Inspection Location	Main Track	Yard	Station	OCC	RTA Facility	FTA Office	Track Type	At-grade	Tunnel	Elevated	N/A			
		X						X						
Line(s)	B-Line	Track Number	Yard Tracks 1-13, North and South ends	Chain Marker and/or Station(s)	From			To						
					Brentwood Yard (B99)			Brentwood Yard (B99)						

¹ The rail transit agency must provide FTA 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 FTA verification inspections to ensure corrections are sufficient and effective.

Inspector in Charge - Signature	ADAM ANTHONY GIOVANDO		Digitally signed by ADAM ANTHONY GIOVANDO DN: c=US, o=U.S. Government, ou=FRA FRAFTWorthTX, ou=DOT FRAFTWorthTX, cn=ADAM ANTHONY GIOVANDO Date: 2017.09.29 14:04:41 -04'00'	Date
Inspector in Charge - Name	Adam Giovando			
Inspection Team	Alexander Nepa			

Form FTA-IR-1

Version date: 8/26/16



United States Department of Transportation
Federal Transit Administration

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Vehicles	Head Car Number	Number of Cars	Equipment	N/A					
	TGV-1	1							
Description	TRST unit 89 conducted a job safety briefing inside the Track Geometry Vehicle (TGV)-1 prior to testing. The briefing was fully compliant with WMATA's roadway worker protection (RWP) requirements and included the safety rule of the day, hot spots, ID and personal protective equipment (PPE) verification, type of protection, hazards, and hospital location. The FWSO Inspector did not note any defects.						Number of Defects	0	
							Recommended Finding?	No	
							Remedial Action Required?	No	
							Recommended Reinspection?	No	
Remedial Action	N/A								

Inspection Activity #	2	Inspection Subject					Activity Code		TRK	TGV	OBS					
Job Briefing Employee Name/Title	TRST 89			Accompanied Inspector?	Yes	Out Brief Conducted	Yes	Time	0700 1500	Outside Shift	No					
Related Reports	N/A			Related CAPS / Findings		N/A										
Related Rules, SOPs, Standards, or Other	Ref		Rule or SOP		Standard		Other / Title		Checklist Reference							
	TRST-1000 rev. 6								ID Numbers							
Inspection Location	Main Track	Yard	Station	OCC	RTA Facility	FTA Office	Track Type	At-grade	Tunnel	Elevated	N/A					
		X						X								
Line(s)	B-Line	Track Number	Yard Tracks 1-13, North and South ends	Chain Marker and/or Station(s)	From				To							
					Brentwood Yard (B99)				Brentwood Yard (B99)							
Vehicles	Head Car Number	Number of Cars		Equipment	TGV-1											
	TGV-1	1														
Description	An FWSO Inspector accompanied WMATA TGV-1 as it performed ultrasonic rail and geometry testing on tracks 1 through 13, north and south ends, in Brentwood Yard. No black, out-of-service conditions were noted during this testing. The FWSO Inspector did not note any defects.						Number of Defects		0							
							Recommended Finding?		No							
							Remedial Action Required?		No							
							Recommended Reinspection?		No							
Remedial Action	N/A															



Inspection Form

FOIA Exemption: All (b)(6)

Form FTA-IR-1

United States Department of Transportation
Federal Transit Administration

Agency/Department Information

Inspection Date	YYYY	MM	DD	Report Number	20170928-WMATA-AG-2		
	2017	09	28				
Rail Agency Name	Washington Metropolitan Area Transit Authority			Rail Agency Department	TRPM	Sub- Department	CM
Rail Agency Department Contact Information	Name		Email		Office Phone		Mobile Phone
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
Inspection Location	Woodley Park (A04) – Alternating Current(AC) Switchboard (SWBD) Rooms #1 and #2						

Inspection Summary

Inspection Activity #	1	2	3	4	5	6
Activity Code	TP-JSB-OBS	TP-RM-OBS				
Inspection Units	1	1				
Inspection Subunits	1	1				
Defects (Number)	0	0				
Recommended Finding	No	No				
Remedial Action Required ¹	No	No				
Recommended Reinspection	No	No				

Activity Summaries

Inspection Activity #	1	Inspection Subject	Woodley Park (A04) – Safety Briefing				Activity Code		TP	JSB	OBS
Job Briefing Employee Name/Title	WMATA Power Personnel		Accompanied Inspector?	Yes	Out Brief Conducted	Yes	Time	0100 - 0500	Outside Shift	Yes	
Related Reports	N/A		Related CAPS / Findings		N/A						
Related Rules, SOPs, Standards, or Other	Ref		Rule or SOP		Standard		Other / Title		Checklist Reference		
	RWPM										
Inspection Location	Main Track	Yard	Station	OCC	RTA Facility	FTA Office	Track Type	At-grade	Tunnel	Elevated	N/A
			X								X
Line(s)	A-Line	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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Inspector in Charge - Signature	 ADAM ANTHONY GIOVANDO		Digitally signed by ADAM ANTHONY GIOVANDO DN: c=US, o=U.S. Government, ou=FRA FRAFTWorthTX, ou=DOT FRAFTWorthTX, cn=ADAM ANTHONY GIOVANDO Date: 2017.09.29 14:09:56 -04'00'	Date
Inspector in Charge – Name Adam Giovando	Inspection Team Tino Sahoo			



United States Department of Transportation
Federal Transit Administration

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Description	FWSO personnel received a job safety briefing from the WMATA power personnel. All personal protective equipment (PPE) and roadway worker protection (RWP) IDs were checked. WMATA power personnel covered the nearest hospital and safety rule of the day. The potential safety hazards were discussed. The FWSO Inspector did not note any defects.	Number of Defects	0
		Recommended Finding?	No
		Remedial Action Required?	No
		Recommended Reinspection?	No
Remedial Action	N/A		

Inspection Activity #	2	Inspection Subject	Woodley Park (A04) – Corrective Maintenance				Activity Code	TP	RM	OBS						
Job Briefing Employee Name/Title	WMATA Power Personnel		Accompanied Inspector?	Yes	Out Brief Conducted	Yes	Time	0100 - 0500	Outside Shift	Yes						
Related Reports	N/A		Related CAPS / Findings		N/A											
Related Rules, SOPs, Standards, or Other	Ref		Rule or SOP		Standard		Other / Title		Checklist Reference							
	General Electric (GE) AC Switchgear troubleshooting procedures															
Inspection Location	Main Track	Yard	Station	OCC	RTA Facility	FTA Office	Track Type	At-grade	Tunnel	Elevated	N/A					
			X								X					
Line(s)	A-Line	Track Number	N/A	Chain Marker and/or Station(s)	From			To								
					Woodley Park (A04) – AC SWBD Rooms #1 and #2			Woodley Park (A04) – AC SWBD Rooms #1 and #2								
Vehicles	Head Car Number		Number of Cars		Equipment	General Electric (GE) AC Switchgear										
	N/A		N/A													
Description	An FWSO Inspector observed WMATA engineering in conjunction with WMATA's power personnel performing corrective maintenance on the Programmable Logic Controllers (PLCs) and Human Machine Interface (HMIs) on the alternating current (AC) switchgear (SWGR) in AC switchboard (SWBD) Rooms #1 and #2. The PLCs and touchpad screens were troubleshot, fixed, and in working order. The FWSO Inspector and WMATA personnel did not note any defects.						Number of Defects		0							
							Recommended Finding?		No							
							Remedial Action Required?		No							
							Recommended Reinspection?		No							
Remedial Action	N/A															



Inspection Form

FOIA Exemption: All (b)(6)

Form FTA-IR-1

United States Department of Transportation
Federal Transit Administration

Agency/Department Information

Inspection Date	YYYY	MM	DD	Report Number	20170928-WMATA-AG-3		
	2017	09	28				
Rail Agency Name	Washington Metropolitan Area Transit Authority			Rail Agency Department	TRST	Sub- Department	TKIN
Rail Agency Department Contact Information	Name		Email		Office Phone		Mobile Phone
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
Inspection Location	D-Line, Track 2, Capitol South (D05) to Eastern Market (D06)						

Inspection Summary

Inspection Activity #	1	2	3	4	5	6
Activity Code	TRK-JSB-OBS	TRK-WI-PI				
Inspection Units	1	1				
Inspection Subunits	1	1				
Defects (Number)	0	6				
Recommended Finding	No	Yes				
Remedial Action Required ¹	No	Yes				
Recommended Reinspection	No	Yes				

Activity Summaries

Inspection Activity #	1	Inspection Subject					Job Safety Briefing			Activity Code		TRK	JSB	OBS
Job Briefing Employee Name/Title	TRST 6269					Accompanied Inspector?	Yes	Out Brief Conducted	Yes	Time	1000 1400	Outside Shift	Yes	
Related Reports	N/A					Related CAPS / Findings		N/A						
Related Rules, SOPs, Standards, or Other	Ref		Rule or SOP		Standard			Other / Title		Checklist Reference				
	RWPM													
Inspection Location	Main Track	Yard	Station	OCC	RTA Facility	FTA Office	Track Type	At-grade	Tunnel	Elevated	N/A			
	X								X					
Line(s)	D-Line		Track Number	Track 2		Chain Marker and/or Station(s)		From		To				
								Capitol South (D05)		Eastern Market (D06)				
Vehicles	Head Car Number		Number of Cars			Equipment		N/A						
	N/A		N/A											

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Inspector in Charge - Signature	ADAM ANTHONY GIOVANDO		Digitally signed by ADAM ANTHONY GIOVANDO DN: c=US, o=U.S. Government, ou=FRA FRAFTWorthTX, ou=DOT FRAFTWorthTX, cn=ADAM ANTHONY GIOVANDO Date: 2017.10.03 13:07:57 -04'00'	Date
Inspector in Charge - Name	Adam Giovando			
Inspection Team	Lee Emard, Ken Sgroi, Adam Giovando			



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Description	TRST unit 6269 conducted a job safety briefing at Federal Triangle Station platform. The briefing was fully compliant with WMATA's roadway worker protection (RWP) requirements and included the safety rule of the day, hot spots, ID, personal protective equipment (PPE) verification, type of protection, hazards, and hospital location.							Number of Defects		0	
								Recommended Finding?		No	
								Remedial Action Required?		No	
	The FWSO Inspectors did not note any defects.							Recommended Reinspection?		No	
Remedial Action	N/A										

Inspection Activity #	2	Inspection Subject	Track Observation					Activity Code		TRK	WI	PI
Job Briefing Employee Name/Title	TRST 6269		Accompanied Inspector?	Yes	Out Brief Conducted	Yes	Time	1000 1400	Outside Shift	Yes		
Related Reports	N/A		Related CAPS / Findings		N/A							
Related Rules, SOPs, Standards, or Other	Ref		Rule or SOP		Standard			Other / Title		Checklist Reference		
	TRST-1000, rev. 6											
Inspection Location	Main Track	Yard	Station	OCC	RTA Facility	FTA Office	Track Type	At-grade	Tunnel	Elevated	N/A	
	X								X			
Line(s)	D-Line	Track Number	Track 2	Chain Marker and/or Station(s)	From				To			
					Capitol South (D05)				Eastern Market (D06)			
Vehicles	Head Car Number		Number of Cars		Equipment	N/A						
	N/A		N/A									
Description	FWSO Inspectors performed a general observation of track conditions on track 2 of the D-Line between Capitol South (D05) and Eastern Market (D06).							Number of Defects		6		
								Recommended Finding?		Yes		
								Remedial Action Required?		Yes		
	<p>The following non-color coded defects were observed:</p> <ul style="list-style-type: none"> TRST 1000, 13.17.4.1: Between D2 124+00 and 125+00, a relay rail tripping hazard was noted. TRST 1000, 13.17.4.1: Between D2 127+30 and 128+90, a relay rail tripping hazard was noted. TRST 1000 13.17.4.1: Between D2 129+00 and 130+00, a relay rail tripping hazard was noted TRST 1000, 5.14.14: At D2 135+60, incorrect joint bars were noted in the station area. TRST 1000, 5.14.14: At D2 135+90, incorrect joint bars were noted in the station area. TRST 1000, 3.2.2.1: Between D2 114+00 and 135+00, dirty, wet, and muddy conditions were noted under the third rail <p>Other Notable Observations:</p> <ul style="list-style-type: none"> FWSO Inspectors observed five gauge rods installed, bad fastener conditions, and porcelain insulators throughout. 							Recommended Reinspection?		Yes		
Remedial Action	<p>To achieve compliance with WMATA's requirements:</p> <ul style="list-style-type: none"> WMATA must remove the relay rail between D2 124+00 and 125+00. WMATA must remove the relay rail between D2 127+30 and 128+90. WMATA must remove relay rail between D2 129+00 and 130+00. WMATA must install the correct joint bars at D2 135+60. WMATA must install the correct joint bars at D2 135+60. WMATA must mitigate dirty, wet, and muddy conditions noted under the third rail between D2 114+00 and 135+00. 											



Inspection Form

FOIA Exemption: All (b)(6)

Form FTA-IR-1

United States Department of Transportation
Federal Transit Administration

Agency/Department Information

Inspection Date	YYYY	MM	DD	Report Number	20170929-WMATA-AG-1		
	2017	09	29				
Rail Agency Name	Washington Metropolitan Area Transit Authority			Rail Agency Department	TRPM	Sub- Department	
Rail Agency Department Contact Information	Name		Email		Office Phone		Mobile Phone
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
Inspection Location	Metro Center (C01) – Traction Power Substation (TPSS) and D2 004+50						

Inspection Summary

Inspection Activity #	1	2	3	4	5	6
Activity Code	TP-JSB-OBS	TP-RM-OBS				
Inspection Units	1	1				
Inspection Subunits	1	1				
Defects (Number)	0	0				
Recommended Finding	No	No				
Remedial Action Required ¹	No	No				
Recommended Reinspection	No	No				

Activity Summaries

Inspection Activity #	1	Inspection Subject					Job Safety Briefing			Activity Code		TP	JSB	OBS
Job Briefing Employee Name/Title	WMATA RWIC					Accompanied Inspector?	Yes	Out Brief Conducted	Yes	Time	0100 to 0500	Outside Shift	Yes	
Related Reports	N/A					Related CAPS / Findings		N/A						
Related Rules, SOPs, Standards, or Other	Ref		Rule or SOP			Standard			Other / Title		Checklist Reference			
	RWPM													
Inspection Location	Main Track	Yard	Station	OCC	RTA Facility	FTA Office	Track Type	At-grade	Tunnel	Elevated	N/A			
	X								X					
Line(s)	C-Line	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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Inspector in Charge - Signature	ADAM ANTHONY GIOVANDO		Digitally signed by ADAM ANTHONY GIOVANDO DN: c=US, o=U.S. Government, ou=FRA FRAFTWorthTX, ou=DOT FRAFTWorthTX, cn=ADAM ANTHONY GIOVANDO Date: 2017.10.03 13:06:48 -04'00'	Date
Inspector in Charge – Name	Adam Giovando			
Inspection Team	Tino Sahoo			



United States Department of Transportation
Federal Transit Administration

Form FTA-IR-1

Description	<p>FWSO personnel received a job safety briefing from the WMATA roadway worker in charge (RWIC). All personal protective equipment (PPE) and roadway worker protection (RWP) IDs were checked and the working limits were reviewed. The WMATA RWIC covered the nearest hospital and safety rule of the day. The hot spots, hazards, clearance areas, communication, and Roadway Access Guide were used as part of the discussion.</p> <p>The FWSO Inspector did not note any defects.</p>	Number of Defects	0
		Recommended Finding?	No
		Remedial Action Required?	No
		Recommended Reinspection?	No
Remedial Action	N/A		

Inspection Activity #	2	Inspection Subject	Metro Center (C01) - Cable Replacement				Activity Code	TP	RM	OBS	
Job Briefing Employee Name/Title	WMATA RWIC		Accompanied Inspector?	Yes	Out Brief Conducted	Yes	Time	0100 to 0500	Outside Shift	Yes	
Related Reports	N/A		Related CAPS / Findings	N/A							
Related Rules, SOPs, Standards, or Other	Ref	Rule or SOP		Standard		Other / Title		Checklist Reference			
	ENGINEERING MODIFICATION INSTRUCTIONS (EMI) FOR JUMPER, EXPANSION, AND TRANSITION POWER CABLES REPLACEMENT SYSTEM WIDE (REVISION 2, SEPTEMBER 16, 2016)										
Inspection Location	Main Track	Yard	Station	OCC	RTA Facility	FTA Office	Track Type	At-grade	Tunnel	Elevated	N/A
	X								X		
Line(s)	C-Line	Track Number	Track 2	Chain Marker and/or Station(s)		From		To			
						Metro Center (C01) TPSS		D2 004+50			
Vehicles	Head Car Number		Number of Cars		Equipment	Negative Return Cables (1000 kcmil, 2 kV)					
	N/A		N/A								
Description	<p>An FWSO Inspector observed WMATA power personnel and electrical contractors replace two 1 kV, 1000 kcmil negative return cables with new 2 kV, 1000 kcmil negative return cables. These were routed from the Traction Power Substation (TPSS) to the wayside impedance bond.</p> <p>The FWSO Inspector observed the pulling of one new negative return cable (2 kV, 1000 kcmil) from the TPSS to the wayside impedance bond at D2 004+50. A terminal lug was crimped on the wayside end of the new cable. The new cable was meggered, then was partially routed through the cable tray in the TPSS and dressed (i.e., cables are neatly arranged using cable ties). Another new negative return cable (2kV, 1000 kcmil) was previously pulled the night before. A terminal lug was crimped on the wayside end of this cable and the cable was meggered. Next, the cable was fully routed through the cable tray in the TPSS and dressed and another terminal lug was crimped on the TPSS side of the cable. Finally, the cable was terminated on the negative drainage switchboard in the TPSS as well as the wayside impedance bond.</p> <p>The FWSO Inspector and WMATA personnel did not note any defects.</p>						Number of Defects	0			
							Recommended Finding?	No			
							Remedial Action Required?	No			
							Recommended Reinspection?	No			
Remedial Action	N/A										



Inspection Form

FOIA Exemption: All (b)(6)

Form FTA-IR-1

United States Department of Transportation
Federal Transit Administration

Agency/Department Information

Inspection Date	YYYY	MM	DD	Report Number	20170929-WMATA-AG-2		
	2017	09	29				
Rail Agency Name	Washington Metropolitan Area Transit Authority			Rail Agency Department	TRPM	Sub- Department	
Rail Agency Department Contact Information	Name		Email		Office Phone		Mobile Phone
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
Inspection Location	Branch Avenue Rail Yard (F99)						

Inspection Summary

Inspection Activity #	1	2	3	4	5	6
Activity Code	TP-JSB-OBS	TP-WI-OBS				
Inspection Units	1	1				
Inspection Subunits	1	1				
Defects (Number)	0	3				
Recommended Finding	No	Yes				
Remedial Action Required ¹	No	Yes				
Recommended Reinspection	No	Yes				

Activity Summaries

Inspection Activity #	1	Inspection Subject					Job Safety Briefing			Activity Code		TP	JSB	OBS
Job Briefing Employee Name/Title	WMATA RWIC					Accompanied Inspector?	Yes	Out Brief Conducted	Yes	Time	1000-1400	Outside Shift	No	
Related Reports	N/A					Related CAPS / Findings			N/A					
Related Rules, SOPs, Standards, or Other	Ref		Rule or SOP			Standard			Other / Title		Checklist Reference			
	RWPM													
	MSRPH													
Inspection Location	Main Track	Yard	Station	OCC	RTA Facility	FTA Office	Track Type	At-grade	Tunnel	Elevated	N/A			
		X						X						
Line(s)	F-Line		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										

¹ The rail transit agency must provide FTA 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 FTA verification inspections to ensure corrections are sufficient and effective.

Inspector in Charge - Signature	ADAM ANTHONY GIOVANDO		Digitally signed by ADAM ANTHONY GIOVANDO DN: c=US, o=U.S. Government, ou=FRA FRAFTWorthTX, ou=DOT FRAFTWorthTX, cn=ADAM ANTHONY GIOVANDO Date: 2017.10.03 13:05:32 -04'00'	Date
Inspector in Charge - Name	Adam Giovando		Inspection Team	Tino Sahoo



United States Department of Transportation
Federal Transit Administration

Description	FWSO personnel received a job safety briefing from the WMATA roadway worker in charge (RWIC). All personal protective equipment (PPE) and roadway worker protection (RWP) IDs were checked as well as the working limits reviewed. The WMATA RWIC covered the nearest hospital and safety rule of the day. The hazards, clearance areas, and communication were used as part of the discussion.							Number of Defects		0	
								Recommended Finding?		No	
								Remedial Action Required?		No	
	The FWSO Inspector did not note any defects.							Recommended Reinspection?		No	
Remedial Action		N/A									

Inspection Activity #	2	Inspection Subject	Walking Observation (Cable Inspection)				Activity Code		TP	WI	OBS
Job Briefing Employee Name/Title	WMATA RWIC		Accompanied Inspector?	Yes	Out Brief Conducted	Yes	Time	1000-1400	Outside Shift	No	
Related Reports	N/A		Related CAPS / Findings		N/A						
Related Rules, SOPs, Standards, or Other	Ref	Rule or SOP		Standard		Other / Title		Checklist Reference			
	TRACTION POWER DESIGN DRAWING (DD-TP-SSI-013, REVISION 0, AUGUST 2001)										
	ENGINEERING MODIFICATION INSTRUCTIONS (EMI) FOR JUMPER, EXPANSION, AND TRANSITION POWER CABLES REPLACEMENT SYSTEM WIDE (REVISION 2, SEPTEMBER 16, 2016)										
Inspection Location	Main Track	Yard	Station	OCC	RTA Facility	FTA Office	Track Type	At-grade	Tunnel	Elevated	N/A
		X						X			
Line(s)	F-Line	Track Number	N/A	Chain Marker and/or Station(s)		From		To			
						Branch Avenue Yard (F99)		Branch Avenue Yard (F99)			
Vehicles	Head Car Number		Number of Cars		Equipment	N/A					
	N/A		N/A								
Description	FWSO inspectors observed WMATA employees perform a cable inspection at the Branch Avenue Yard (F99). The following non-color-coded defects was observed: <ul style="list-style-type: none"> TRST 1000 Manual, 13.3.14: Third rail cover board missing at Yard Lead (YL) 2 013+00 DD-TP-SSI-013: Yard Contact Rail (YCR) 9 – Sealing collar missing from orange boot power assembly. DD-TP-SSI-013: YL 1 005+00 – Power conduit stub-up missing OZ Gedney bushing that houses Liquidtite conduit containing third rail heater tape. Other Notable Observations: <ul style="list-style-type: none"> Cables lying on the ground at YCR 4. Cables lying on the ground at YL 1 CM 005+00. 							Number of Defects		3	
								Recommended Finding?		Yes	
								Remedial Action Required?		Yes	
								Recommended Reinspection?		Yes	
Remedial Action		To achieve compliance with WMATA's requirements: <ul style="list-style-type: none"> WMATA must replace third rail cover board at YL 2 013+00. WMATA must install sealing collar in orange boot power assembly at YCR 9. WMATA must install OZ Gedney bushing in power conduit stub-up at YL 1 005+00. 									



Inspection Form

FOIA Exemption: All (b)(6)

Form FTA-IR-1

United States Department of Transportation
Federal Transit Administration

Agency/Department Information

Inspection Date	YYYY	MM	DD	Report Number	20170930-WMATA-AG-1		
	2017	09	30				
Rail Agency Name	Washington Metropolitan Area Transit Authority			Rail Agency Department	TRST	Sub- Department	TPRO
Rail Agency Department Contact Information	Name		Email		Office Phone		Mobile Phone
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
	[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]
Inspection Location	C-Line, Track 2, Foggy Bottom (C04) to Rosslyn (C05)						

Inspection Summary

Inspection Activity #	1	2	3	4	5	6
Activity Code	TRK-JSB-OBS	TRK-WI-PI				
Inspection Units	1	1				
Inspection Subunits	1	1				
Defects (Number)	0	1				
Recommended Finding	No	Yes				
Remedial Action Required ¹	No	Yes				
Recommended Reinspection	No	Yes				

Activity Summaries

Inspection Activity #	1	Inspection Subject					Job Safety Briefing			Activity Code		TRK	JSB	OBS
Job Briefing Employee Name/Title	TRST 6198					Accompanied Inspector?	Yes	Out Brief Conducted	Yes	Time	0700 1500	Outside Shift	Yes	
Related Reports	N/A					Related CAPS / Findings		N/A						
Related Rules, SOPs, Standards, or Other	Ref		Rule or SOP		Standard		Other / Title		Checklist Reference					
	RWPM													
Inspection Location	Main Track	Yard	Station	OCC	RTA Facility	FTA Office	Track Type	At-grade	Tunnel	Elevated	N/A			
	X		X					X	X					
Line(s)	C-Line		Track Number	Track 1	Chain Marker and/or Station(s)		From		To					
							Foggy Bottom (C04)		Rosslyn (C05)					
Vehicles	Head Car Number		Number of Cars		Equipment		N/A							
	N/A		N/A											

¹ The rail transit agency must provide FTA 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 FTA verification inspections to ensure corrections are sufficient and effective.

Inspector in Charge - Signature	ADAM ANTHONY GIOVANDO		Digitally signed by ADAM ANTHONY GIOVANDO DN: c=US, o=U.S. Government, ou=FRA FRAFTWorthTX, ou=DOT FRAFTWorthTX, cn=ADAM ANTHONY GIOVANDO Date: 2017.10.03 12:57:51 -04'00'	Date
Inspector in Charge - Name	Adam Giovando		Inspection Team	Alexander Nepa



United States Department of Transportation
Federal Transit Administration

Form FTA-IR-1

Description	TRST unit 6198 conducted a job safety briefing at the Rosslyn Station briefing table. The briefing was fully compliant with WMATA's roadway worker protection (RWP) requirements and included the safety rule of the day, hot spots, ID and personal protective equipment (PPE) verification, type of protection, hazards, and hospital location. The FWSO Inspector did not note any defects.	Number of Defects	0
		Recommended Finding?	No
		Remedial Action Required?	No
		Recommended Reinspection?	No
Remedial Action	N/A		

Inspection Activity #	2	Inspection Subject	Work Protection Limits and Track Observation					Activity Code	TRK	WI	PI
Job Briefing Employee Name/Title	TRST 6216		Accompanied Inspector?	Yes	Out Brief Conducted	Yes	Time	0700 1500	Outside Shift	Yes	
Related Reports	N/A		Related CAPS / Findings		N/A						
Related Rules, SOPs, Standards, or Other	Ref	Rule or SOP		Standard			Other / Title		Checklist Reference		
	TRST-1000 rev. 6										
	RWPM										
Inspection Location	Main Track	Yard	Station	OCC	RTA Facility	FTA Office	Track Type	At-grade	Tunnel	Elevated	N/A
	X							X	X		
Line(s)	C-Line	Track Number	Track 1	Chain Marker and/or Station(s)	From			To			
					Foggy Bottom (C04)			Rosslyn (C05)			
Vehicles	Head Car Number		Number of Cars		Equipment	N/A					
	N/A		N/A								
Description	An FWSO Inspector performed an inspection of work zone setup, general condition of single tracking, and track 1 repairs between Foggy Bottom (C04) and Rosslyn (C05) stations. All work zone protections were installed at the appropriate locations. At the time of the observation, at C05-02 switch number one, maintenance crews were dismantling the switch point, stock rail, and connecting rail components. WMATA crews were also jackhammering the old grout pad and prepping the area for pouring new grout pads. All work appeared to be compliant with WMATA TRST 1000 standards All employees that were observed, appeared to be working safely with all required personal protective equipment (PPE). The following non-color-coded defect was observed: <ul style="list-style-type: none"> WMATA roadway worker protection manual (RWPM), page 82: Derailer was installed backwards at C1 185+00. This condition was corrected by the RWIC. (See Figure 1, below.) 						Number of Defects	1			
							Recommended Finding?	Yes			
							Remedial Action Required?	Yes			
							Recommended Reinspection?	Yes			
Remedial Action	N/A										



Photos:

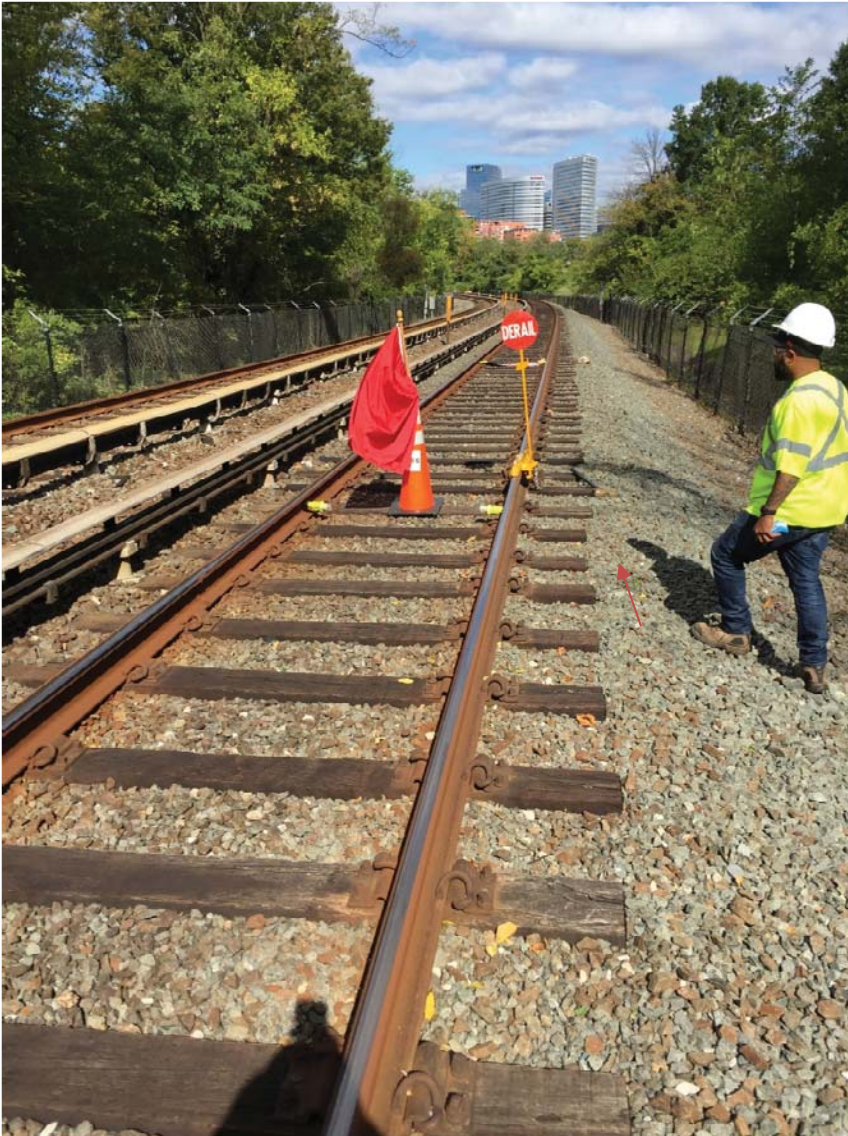


Figure 1: Derail installed improperly at C1 185+00.