

Agency/Department Information

Federal Transit Administration

Inspection Date	YYYY	MM	DD	Report Number	20170705-WMATA-WP-1				
inspection Date	2017	07	05	Report Number					
Rail Agency Name	Washington Authority	on Metropolitan Area Transit Rail Agency Department		• •	RTRA	Sub- Department		ROCC	
	I	Name		Email	Office Phone	е	N	1obile Phone	
Rail Agency Department Contact Information									
Inspection Location	Rail Operatic 3500 Pennsy Landover, M		nter (ROCC)						

Inspection Summary

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

Activity Summaries

Inspection Activity #	1	Inspec	tion Sub	ject	ROCC R	ules Co	ompliance O	bservation		Activity Co	ode	ROO	CC	RC	OBS
Job Briefing Employee Name/Title	N/A				ompanied ector?	N/A	Out Brief Conducted	Yes	Time	1000 1530		Outside Shift	No		
Related Reports		fety Management Inspection MI), Final Report, June 17, 2015				Related CAPS / Findings Required Action			ctions: R-1-6-a, R-1-6-b; R-1-9-a						
	Ref				Rule or S	OP		Standard		Other / T	ïtle		Checklist Reference		
Related Rules, SOPs, Standards, or Other	MSRF RWPI				Rules (Ra Operatic Rules 1.6 Permane	Section 1 – General Rules (Radio Usage and Operation): Rules 1.69 – 1.88 Permanent Orders: No. T-16-10, No. R-17-									
	Mai Trac		Yard	Statio	on C	DCC	RTA Facility	FTA Office	Treads Tread	At-grade	e Tu	nnel	Ele	vated	N/A
Inspection Location						х			Track Type						х
Line(s)	N/A		Track		N/A	Chain Mark		rker		From	То				
Line(s)	IN/A		Numbe	er	N/A		and/or St	ation(s)	N/A			n/a			

Inspector in Charge - Signature				Date
		WINSLOW L. POWELL	Digitally signed by WINSLOW L. POWELL DN: c=US, o=U.S. Government, ou=FTAHQ, Date: 2017.07.07 06:49:07 -04'00'	pu=DOT Headquarters, cn=WINSLOW L. POWELL
Inspector in Charge – Name	Inspection Team			
Winslow Powell	Tamara Powell			



	Head Car Number	Number of Cars				
Vehicles	N/A	N/A	Equipment	N/A		
		nducted a Rules Complian			Number of Defects	0
		nsole for compliance with			Recommended Finding?	No
		(MSRPH), as well as pern	-		Remedial Action Required?	No
Description	Operations (Ops) 1 Con Procedures Handbook roadway access activit other ROCC procedures incidents that took pla Radio Procedures and o The FWSO I each radio I ended each communica o The RTCs co operators, s service. The anomalies a roadway acc o The RTCs er instruction, word read B o The RTCs er instruction, word read B o The RTCs er instruction, word read B o The RTCs m personnel c access prot Documentation and C o The FWSO I regarding ro maintained recorded al required inf o The FWSO I saccess, the and blocked request. o The FWSO I each electro (AIM) Syste the logbool the line. Th anomalies c Roadway Access: The FWSO Inspector ol duties associated with Console, commencing made for the crew's le was compliant with Pe Permanent Order No. I o The person over the rad location of for the require o Personnel a each access o The RTCs es exits," as w	(MSRPH), as well as perm les and radio procedures s and noted RTC's overal ce during the shift. Protocols: nspector observed the ra- proadcast. The RTC acknowned transmission with "over- tion loop concluded. bordinated between the fa- tation managers, and ea- ty ensured that maintena- and operating conditions cess requests and inspec- mployed International Cir- or transmissions involving- ric station identification. Insured each unit or opera- clearance, and transmission- back. ade clear and appropriat of all operational anomali- ection in place (e.g., foul- hecklists: nspector reviewed all references adway access and foul- re checklists were proper- and permanent orders; establishment of red signed track, and trains restrict nspector observed two re- onically sign onto Advance m screen at the beginning (paper records) acknow e RTCs also verbally exch- upon each transfer of dut osserved the RTC radio per RWP access requests for at 1000 hours. There were- vel of protection during to rean of the red signed track of the signed track of the stree of the RWP access requests for at 1000 hours. There were- vel of protection during to rean of the RTC radio per RWP access requests for at 1000 hours. There were- vel of protection during to rean of the red signed track of the stree of the RWP access requests for at 1000 hours. There were- vel of protection during to rean of the red signed track of the stree of the RWP access requests for at 1000 hours. There were- vel of protection during to rean of the request (station rest. cknowledged location ar	n the Metrorail Safet nanent orders that g . The inspector also of l performance and re all traffic controllers owledged all radio re " and used "out" wh field portable track u ch other to monitor ince personnel were that may potentially tions. vil Aviation Organiza g power requests an ator acknowledged e sion with 100 percen e radio broadcasts the es and established re time). quired documentation including that the nnel on the roadway vel of protection, an i monitor access and dy filled out in accorr including time and lo hal and prohibit exits ted and/or affected l eleiving RTCs at the u eleiving RTCs at the u eleiving defects and anged operating con- ies. rformance and othe five work crews on the five work crews on the five sore foul time (F the observation perior to cation of self and wo n or chain marker), a and presence of AMFs ed all red signals and ue block track, via the	y Rules and overn observed esponse to (RTC) during quests and en the inits, train revenue aware of impact their tion (ICAO) d ach operating t word-for- hat informed oadway on checklists RTC / with d other coordination. dance with ocation of , human form by each Ops 1 Console agement ell as initial anomalies on iditions and r required the Ops 1 T) requests od. The RTC me) and y called on/off ork crew, the nd the reason required for		



	The RTC required 100 percent and word-for-word repeat backs for all
	requests, ensuring the track units were in receipt of and repeated
	back full instructions and clearance. The RTC Inspector observed one
	communication loop where the controller requested a repeat back
	from the unit three times until the unit could repeat his FT instructions
	back to the RTC verbatim.
	• The RTC contacted the train in the vicinity regarding all FT requests,
	making general announcements for all other access clearances and
	locations.
	• The RTC properly broadcast all on/off times for general and foul time
	requests.
	The FWSO Inspector did not note any ROCC rules compliance defects.
	Other Notable Observations:
	1) There was a radio communication problem encountered with a power
	crew. The crew was under a FT request in the vicinity of Forest Glen
	and were asked to clear to a place of safety to allow revenue service
	to pass. When the train traffic cleared up, the RTCs could no longer
	communicate with personnel via radio. The power unit was finally
	reached via a service train. The power crew personnel called the RTC
	via a landline phone and was picked up by a revenue train to clear the
	area. The RTC called in area chain markers to Communications.
	2) At 1123 hours, a slow speed restriction was imposed at Silver Spring
	on track #1 due to a broken joint bar. An emergency response crew
	responded and made emergency repairs under FT from 1237 to 1249
	hours. Trains were single-tracked on (or via) track 2 from Silver Spring
	to Takoma for the duration of the repairs. Restriction subsequently
	was lifted after the repairs were made.
	3) An FWSO Inspector observed that on-duty assistant superintendents
	were vigilant; consistently monitoring and visiting each console, and
	were communicating instruction and operations conditions to the
	RTCs.
Remedial Action	N/A



United States Department of Transportation Federal Transit Administration

Agency/Department Information

Inspection Date	YYYY	MM	DD	Report Number	20170706 \\/\	1 A T A A	C 1		
inspection Date	2017 07 06 Report Humber		20170706-WMATA-AG-1						
Rail Agency Name	Washington Authority	Metropolitan	Area Transit	Rail Agency Department	RTRA	Sub- Department		ROCC	
	1	Name		Email	Office Phone	е	N	1obile Phone	
Rail Agency Department Contact Information									
	Rail Operatio	ons Control Ce	nter (ROCC)						
Inspection Location	3500 Pennsy	Drive							
	Landover, MD 20785								

Inspection Summary

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

Activity Summaries

Inspection Activity #	1	Inspec	tion Sub	ject	ROCC R	ules Co	ompliance O	bservation		Activity Co	ode	ROO	CC	RC	OBS
Job Briefing Employee Name/Title	N/A	N/A				ompanied ector?	N/A	Out Brief Conducted	Yes	Yes Time 19			Outside Shift	Yes	
Related Reports		Safety Management Inspection (SMI), Final Report, June 17, 2015				Related CAPS / Findings Required Action			tions: R-1-6-a, R-1-6-b; R-1-9-a						
	Ref				Rule or S	SOP		Standard		Other / T	ïtle		Checklist Reference		
Related Rules, SOPs, Standards, or Other	MSRF RWPI				Rules (Ra Operatic Rules 1.6 Permane	Section 1 – General Rules (Radio Usage and Operation): Rules 1.69 – 1.88 Permanent Orders: No. T-16-10, No. R-17-									
	Mai Trac		Yard	Statio	on C	DCC	RTA Facility	FTA Office	T	At-grade	e Tui	nnel	Ele	evated	N/A
Inspection Location						Х			Track Type						x
Line(s)	N/A		Track		N/A	Chain Mar		rker		From		То			
Line(3)	N/A		Numbe	er	NA		and/or St	ation(s)	N/A			N/A			

Inspector in Charge - Signature	DAM ANTHONY GIOVANDO	Digitally signed by ADAM ANTHONY GIOVANDO DN: c=US, o=U.S. Government, ou=FRA FRAFtWorth ANTHONY GIOVANDO Date: 2017.07.10 15:48-55 -05'00'	Date TX, ou=DOT FRAFtWorthTX, cn=ADAM
Inspector in Charge – Name Winslow Powell	Inspection Team Tamara Powell		



	Head Car Number	Number of Cars				
Vehicles	N/A	N/A	Equipment	N/A		
		nducted a Rules Complia			Number of Defects	0
		nsole, Green/Yellow and			Recommended Finding?	No
		ety Rules and Procedures			Remedial Action Required?	No
Description	Operations Control Cei Operations (Ops) 3 Cor with the Metrorail Safe permanent orders that The inspector also obsi- controllers (RTC)'s ove during the shift. Radio Procedures and O The FWSO I The RTC acl with "over" O The RTCs cc operators, s service. The anomalies a roadway ac O The RTCs er standards fo involving pc O The RTCs er instruction, word read b O The RTCs m personnel c access prote Documentation and Cl O The FWSO I roadway ac O The FWSO I roadway ac O The FWSO I roadway ac	nter (ROCC). The inspect nsole, Green/Yellow and ety Rules and Procedures govern roadway access erved other ROCC proced rall performance and res Protocols: nspector observed the R knowledged all radio requinant and "out" until the com bordinated between the fa- station managers and east ey ensured that maintena and operating conditions cess requests and inspec mployed International Cir- or radio transmissions an ower requests and alphan usured each unit or opera- clearance, and transmission back. ade clear and appropriat of all operational anomali ection in place (e.g., foul	or observed radio ac partial Blue Lines fo Handbook (MSRPH activities and radio p dures and noted rail ponse to incidents t TCs during each radi uests and ended eac the ther, to monitor field portable track u ch other, to monitor ince personnel were that may potentially tions. vil Aviation Organiza d notification phone numeric station iden ator acknowledged e sion with 100 percer te radio broadcasts t fes and established r time). quired checklists reg f all personnel on th ecorded all call-on/o quired information t lled out in accordan cluded time and loca	tivities on r compliance), as well as procedures. traffic hat took place in broadcast. th transmission icluded. inits, train revenue aware of y impact their tion (ICAO) e calls tification. each operating it word-for- hat informed oadway arding e roadway call-off times, to manage and ce with Metro tion of access,	Recommended Finding?	No
	 blocked training The FWSO I This occurrent Information shift and initial acknowledge The RTCs all upon each the transmission of the transmission of	ck, and trains restricted a nspector observed one t ed relieving RTC electron in Management (AIM) Sys itialed the logbook ("ROC ging defects and anomali- so verbally exchanged op transfer of duties. beserved the RTC's radio p roadway worker protect is 3 Console, commencing r the crew's level of prot ompliant with Permaneni Order No. R-17-03 (Adva nel followed proper radio dio. This included identifi foul time request (station lest. licknowledged location ar	and/or affected by e ransfer shift at the C ically signed onto Ac tem screen at the be <i>C Daily Activity Log</i> ² es on the line. berating conditions a performance and oth ion (RWP) access rea at 1900 hours. Ther ection during the ob t Order No. R-17-02 need Mobile Flagger o protocol when the cation of self and wo n or chain marker), a	ach request. Ops 3 Console. dvanced eginning of his '/ and anomalies her required quests for four re were no foul iservation (Granting Foul [AMF]). y called on/off ork crew, the ind the reason		



	 The RTCs established and broadcasted all red signals and "prohibit exits," as well as human form and blue block track via the AIM system, as required by each level of protection (e.g., train approach warning [TAW], foul time [FT], etc.). The RTC required 100 percent and word-for-word repeat backs for all requests, ensuring the track units were in receipt of and repeated back full instructions and clearance. The RTC properly broadcast all on/off times for all access requests. The FWSO Inspector did not note any ROCC rules compliance defects. Other Notable Observations: Rail Operations supplemented the baseball game crowd with four gap trains. Assistant Superintendents constantly monitored operations, instructing RTCs to be vigilant for possible water issues; giving overnight preference to drainage pumping station (DPS) personnel accessing pump rooms. At approximately 2241 hours, train #307 reported a door problem at Fort Totten on track #2. The front deuce passenger doors closed uncommanded, and doors on the rear four cars would not close. The operator was finally able to overcome the door problem, but the 	
	Fort Totten on track #2. The front deuce passenger doors closed uncommanded, and doors on the rear four cars would not close. The	
Remedial Action	N/A	



Agency/Department Information

Federal Transit Administration

Inspection Date	YYYY	MM	DD	Report Number	201700706-WMATA-AG-2					
inspection date	2017	07	06	Report Number						
Rail Agency Name	Washington Authority	Metropolitan	Area Transit	Rail Agency Department	TRST	Sub- Dep	ткім			
	Name			Email	Office Phor	Mobile Phone				
Rail Agency Department Contact Information		l								
Inspection Location	C- Line, track	s 1 and 2, Plat	form Inspectio	n between Huntington ((C15) and Arlington Ce	emetery (CO	6).			

Inspection Summary

Inspection Activity #	1	2	3	4	5	6
Activity Code	TRK-WI-PI					
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	Inspect	tion Subj	ect	Platforr	n Track II	nspection			Activity Co	ode	TR	K	WI	PI
Job Briefing Employee Name/Title	N/A					Accom Inspec	panied tor?	N/A	Out Brief Conducted	N/A	Time	100 140	-	Outside Shift	No
Related Reports	N/A					Related CAPS / Findings N/A									
	Ref				Rule or S	OP		Standard		Other / T	ïtle		Check	list Refe	rence
Related Rules, SOPs, Standards, or Other	MSRP	-													
standards, or other	TRST 1	1000													
Inspection Location	Mair Trac	Y	Yard	Stati	ion C	DCC	RTA Facility	FTA Office	Track Type	At-grad	e Tu	nnel	Elev	ated	N/A
				Х						Х		Х			
Line(s)	C-Line		Track		tracks	1	Chain Ma	rker		From			То		
Line(s)	C-LINE		Numbe	r	and 2	á	and/or St	ation(s)	Huntington (C15)	Arlin	ngton Cemetery (C06)			
Maletala a	Head	d Car Nu	ımber	I	Number o	of Cars									
Vehicles		N/A			N/A	L .	Equip	ment	N/A						
								tion of track		Number	of Defect	ts			2
Description			ency Trip general		. ,	lights, tra	in approa	ich warning l	lights,	Recommended Finding?					Yes
	arania		Scheral	contai						Remedia	l Action F	Require	ed?		Yes

Inspector in Charge - Signature	ADAM ANTHONY GIOVANDO	Digitally signed by ADAM ANTHONY GIOVANDO DN: c=US, o=U.S. Government, ou=FRA FRAFtWorthTX, ou=D4 GIOVANDO Date: 2017.07.10 15:53:15 -05'00'	Date DT FRAFtWorthTX, cn=ADAM ANTHONY
Inspector in Charge - Name	Inspection Team		
Adam A. Giovando	Lee Emard		





Agency/Department Information

Inspection Date	YYYY	MM	DD	Report Number	20170706-WMATA-AG-3					
inspection Date	2017	07	06	Report Number						
Rail Agency Name	Washington Metropolitan Area Transit Authority			Rail Agency Department	RTRA	Sub- Dep	ROCC			
	Name			Email	Office Phone		Mobile Phone			
Rail Agency Department Contact Information										
Inspection Location	Rail Operatic 3500 Pennsy Landover, M		nter (ROCC)							

Inspection Summary

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

Activity Summaries

Inspection Activity #	1	Inspec	tion Sub	ject	ROCC R	Rules Co	mpliance O	bservation		Activity Co	ode	RO	CC	RC	OBS	
Job Briefing Employee Name/Title	N/A						mpanied ector?	N/A Out Brief Conducted		Yes	Time	1000 1430		Outside Shift	No	
Related Reports		Safety Management Inspection (SMI), Final Report, June 17, 2015 Ref Rule of				Related CAPS / Findings Req			Required Actions: R-1-6-a, R-1-6-b; R-1-9-a							
	Ref				Rule or S	SOP	P Standard			Other / Title			Checklist Reference			
Related Rules, SOPs, Standards, or Other	MSRPH RWPM				Section 1 – General Rules (Radio Usage and Operation): Rules 1.69 – 1.88 Permanent Orders: No. T-16-10, No. R-17- 03, & No. R-17-02											
Inspection Location	Maiı Trac		Yard	Stati	on (осс	RTA Facility	FTA Office	Track Type	At-grad	e Tu	nnel	Ele	evated	N/A	
						Х									х	
Line(s)	N/A Track		N/A	Chain Mar		ker		From			То					
2			Numbe	er			and/or Sta	ation(s)	N/A		N/A					
Vehicles	Hea	d Car Nu	umber	Ν	Number	of Cars	Equip	ment	N/A							

Inspector in Charge - Signature	DAM ANTHONY GIOVANDO	Digitally signed by ADAM ANTHONY GIOVANDO DN: c=US, o=U.S. Government, ou=FRA FRAFtWorthTX, or GIOVANDO Date: 2017.07.10 15:57:26 -05'00'	Date =DOT FRAFtWorthTX, cn=ADAM ANTHONY
Inspector in Charge – Name Adam Giovando	Inspection Team Chris DiFatta		

	N/A	N/A				
	Overview:				Number of Defects	0
	FWSO Inspector condu	cted a Rules Compliance	observation at the F	ail Operations	Recommended Finding?	No
		The inspector observed			Remedial Action Required?	No
Description	FWSO Inspector condu Control Center (ROCC). (Ops) Console 2 for cor Handbook (MSRPH), as activities and radio pro procedures and noted took place during the s Radio Procedures and • The FWSO I each radio b ended each communica • The RTCS co operators, s service. The anomalies a roadway ac • The RTCs er standards fo alphanumer • The RTCs er instruction, word read b • The RTCs m personnel o protection i	npliance with the Metror well as permanent orde cedures. The inspector a RTC's overall performance hift. Protocols: nspector observed the ra- proadcast. The RTC acknown transmission with "over" tion loop concluded. ordinated between the f tation managers, and ea- y ensured that maintena nd operating conditions cess requests and inspect nployed International Civ- per transmissions involving ic station identification. Issured each unit or opera clearance, and transmission ack. ade clear and appropriat f all operational anomali- n place (e.g., foul time). necklists: nspector reviewed all reco padway access and foul ti a written log of all perso	radio activities on O rail Safety Rules and rs that govern roady lso observed other F e and response to ir wledged all radio re and used "out" wh ield portable track u ch other to monitor nce personnel were that may potentially tions. Aviation Organization gower requests an itor acknowledged e ion with 100 percent e radio broadcasts the es and established re guired documentation me, noting that the nnel on the roadway	perations Procedures vay access ROCC incidents that (RTC) during quests and en the nits, train revenue aware of impact their tion (ICAO) d ach operating t word-for- hat informed padway access on checklists RTC y with	Recommended Finding?	No
	required inf o The foul tim Metro rules access, the and blocked request. o An FWSO In each electro (AIM) Syste log book (pa line. The RT anomalies u Roadway Access: The FWSO Inspector of duties associated with Console commencing a made for the crews' lev was compliant with Pe Permanent Order No. F o The person over the rac location of f for the required	cknowledged location an	monitor access and ly filled out in accord This included time and all and prohibit exits and and and and g of their shift, as we ging defects and and and operating condition and o	coordination. dance with nd location of , human form, by each ups 2 console Management ell as initial the omalies on the ons and r required the Ops 1 r) requests od. The RTC me) and r called on/off ork crew, the nd the reason		



	 The RTCs established and broadcasted all red signals and "prohibit exits," as well as human form and blue block track, via the AIM system as required by each level of protection. The RTC required 100 percent and word-for-word repeat backs for all requests, ensuring the track units were in receipt of and repeated back full instructions and clearance. An FWSO Inspector observed one communication loop where the controller requested a repeat-back from the unit three times until the unit was able to cite his FT instructions back to the RTC verbatim. The RTC contacted the train in the vicinity regarding all FT requests; making general announcements for all other access clearances and locations. The RTC properly broadcast all on/off times for general and foul time requests. 	
Remedial Action	N/A	



Agency/Department Information

Federal Transit Administration

Inspection Date	YYYY	MM	DD	Report Number			C 1			
inspection Date	2017	07	07	Report Number	20170707-WMATA-AG-1					
Rail Agency Name	Washington Authority	Metropolitan	Area Transit	Rail Agency Department	RTRA	Sub- Dep	ROCC			
Rail Agency Department	Name			Email	Office Phon	Mobile Phone				
Contact Information										
	Rail Operations Control Center (ROCC)									
Inspection Location	3500 Pennsy Drive									
	Landover, M	D 20785								

Inspection Summary

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

Activity Summaries

Inspection Activity #	1	Inspec	ction Subj	ect	ROCC R	ules Co	ompliance O	bservation		Activity Co	ode	ROO	CC	RC	OBS
Job Briefing Employee Name/Title	N/A						ompanied ector?	N/A	Out Brief Conducted	Yes	Time	1400 1900		Outside Shift	Yes
Related Reports		Safety Management Inspection (SMI), Final Report, June 17, 2015				Rela	ted CAPS / F	PS / Findings Required Actions: R-1-6-a, R-1-6-b; R-1-9-a							
	Ref				OP		Standard		Other / T	ïtle		Chee	cklist Refe	rence	
Related Rules, SOPs, Standards, or Other	MSRPH (Radio U Operatic Rules 1.6 RWPM No. T-16			Section 1 (Radio U: Operatio Rules 1.6 Permane No. T-16 03, and N	sage ai in): 59 – 1.8 ent Ord -10, No	38 Iers: 5. R-17-	25								
	Mai Trac		Yard	Statio		DCC	RTA Facility	FTA Office		At-grade	e Tu	nnel	Ele	evated	N/A
Inspection Location						х			Track Type						х
Line(s)	N/A	1	Track	-	N/A		Chain Mai	-		From		То			
			Numbe	r			and/or Sta	ation(s)	N/A			N/A			

Inspector in Charge - Signature	DAM ANTHONY GIOVANDO	Digitally signed by ADAM ANTHONY GIOVANDO DN: c=US, o=U.S. Government, ou=FRA FRAFtWorthTX, o GIOVANDO Date: 2017.07.10 15:59:13 -05'00'	Date J=DOT FRAFtWorthTX, cn=ADAM ANTHONY
Inspector in Charge – Name Adam Giovando	Inspection Team Chris DiFatta		



	Head Car Number	Number of Cars				
Vehicles	N/A	N/A	Equipment	N/A		
	Overview:				Number of Defects	0
		nducted a Rules Complian nter (ROCC). The inspecto			Recommended Finding?	No
		ole 1 for compliance with	Remedial Action Required?	No		
Description Remedial Action	Procedures Handbook roadway access activit other ROCC procedures incidents that took pla Radio Procedures and • The FWSO I each radio I ended each communica • The RTCs of operators, s service. The anomalies a roadway ac • The RTCs of operators, s service. The anomalies a roadway ac • The RTCs of alphanume • The RTCs er standards fo alphanume • The RTCs er instruction, word read H • The RTCs m personnel c protection i Documentation and CI • The FWSO I regarding re maintained recorded al required infi • The FWSO I Second the second cost the foult in Metro rules access, the blocked tra • The FWSO I Each electrr Manageme well as initia and anoma conditions a	(MSRPH), as well as perm ies and radio procedures is and noted the RTC's ov ce during the shift. Protocols: Inspector observed the ra- broadcast. The RTC ackno it ransmission with "over tion loop concluded. Doordinated between the fa- station managers, and ea ey ensured that maintena and operating conditions cess requests and inspec mployed International Cis- for transmissions involving ric station identification. Insured each unit or opera- clearance, and transmissions cake. Inde clear and appropriat of all operational anomali in place (e.g., foul time).	nanent orders that g . The inspector also erall performance a all traffic controllers owledged all radio re " and used "out" wh field portable track u ch other to monitor ince personnel were that may potentially tions. vil Aviation Organiza g power requests an ator acknowledged e sion with 100 percer re radio broadcasts t es and established r quired documentatio ime, noting that the nnel on the roadwa vel of protection, ar d monitor access and chy filled out in accor This included time a hal and prohibit exits and/or affected by e elieving RTCs at the Advanced Informatic the beginning of th records), acknowled also verbally exchan o transfer of duties.	(RTCs) during equests and en the units, train revenue aware of <i>i</i> impact their tion (ICAO) d each operating at word-for- hat informed oadway access on checklists RTC y with d other I coordination. dance with nd location of <i>s</i> , human form, ach request. Ops 1 Console. in heir shift, as ging defects nged operating	Recommended Reinspection?	No

United States Department of Transportation Federal Transit Administration

Agency/Department Information

Increation Data	YYYY	MM	DD	Poport Number	20170707-WMATA-AG-2				
Inspection Date	2017	07	07	Report Number	20170707-001	VIATA-A	IG-2		
Rail Agency Name	Washington Authority	Metropolitan	Area Transit	Rail Agency Department	RTRA Sub- Department ROC			ROCC	
	I	Name		Email	Office Phon	e	Ν	Iobile Phone	
Rail Agency Department Contact Information									
Inspection Location	Rail Operatic 3500 Pennsy Landover, M		nter (ROCC)						

Inspection Summary

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

Activity Summaries

Inspection Activity #	1	Inspec	tion Subj	ect	ROCC R	ules Co	ompliance O	bservation		Activity Co	ode	RO	CC	RC	OBS
Job Briefing Employee Name/Title	N/A	N/A				ompanied ector?	N/A	Out Brief Conducted	Yes	Time	1100 1500		Outside Shift	No	
Related Reports		Safety Management Inspection (SMI), Final Report, June 17, 2015				Rela	ted CAPS / I	indings	Required Act	ions: R-1-6-a	a, R-1-6-b	; R-1-9-	а		
	Ref				OP		Standard		Other / T	ïtle		Che	cklist Refe	rence	
Related Rules, SOPs, Standards, or Other	RWPM Section : MSRPH Section : Rules (R Operation Rules 1.6 Permane No. T-16 02 and			adio Us on): 59 – 1.8 ent Ord	sage and 88 ders: p. R-17-										
	Mai Trac		Yard	Statio	on C	DCC	RTA Facility	FTA Office	T	At-grade	e Tu	nnel	Ele	evated	N/A
Inspection Location						х			Track Type						х
Line(s)	N/A		Track		N/A		Chain Ma			From	1			То	
2			Numbe	r	1.77		and/or Sta	ation(s)	N/A			N/A			

Inspector in Charge - Signature	DAM ANTHONY GIOVANDO	Digitally signed by ADAM ANTHONY GIOVANDO DN: c=U5, o=U.S. Government, ou=FRA FRAFtWorthTX, ANTHONY GIOVANDO Date: 2017.07.10 15:02:09 -05'00'	Date ou=DOT FRAFtWorthTX, cn=ADAM
Inspector in Charge – Name Adam Giovando	Inspection Team Tamara Powell		



	Head Car Number	Number of Cars				
Vehicles	N/A	N/A	Equipment	N/A		
	-	cted a Rules Compliance nter (ROCC). The inspecto			Number of Defects	0
		isole, Red Line, for comp			Recommended Finding?	No
		Handbook (MSRPH), as w	Remedial Action Required?	No		
	observed other ROCC p overall performance ar Finally, the FWSO Inspe briefings and boot cam	activities and radio proc procedures and noted the nd response to incidents ector observed assistant p with the RTC's on the a ceived a one-on-one me	er's (RTC's) ng the shift. nduct safety			
	Radio Procedures and	Protocols:				
	 The RTC ack transmission concluded. The RTCs co operators, s service. The aware of an impact their 	nspector observed the R mowledged all radio requine n with "over" and "out" of pordinated between the f station managers, and ea y ensured that maintena omalies and operating co r roadway access request				
	delivery. o The RTCs en	nployed International Civ	vil Aviation Organiza	tion (ICAO)		
	standards fo	or radio transmissions an	d notification phone	calls		
		ower requests and alphar isured each unit or opera				
	instruction, word read b	clearance, and transmiss	sion with 100 percer	it word-for-		
	o The RTCs m	ade clear and required ra				
	-	f all operational anomali ection in place (e.g., foul		oadway		
Description						
	Documentation and Ch o The FWSO I	necklists: nspector reviewed all red	quired checklists reg	arding	Recommended Reinspection?	No
	• The RTCs m <i>("Maintenal</i> the level of monitor acc	cess and foul time. aintained a written log o nce Access Form") with r protection, and other re- ess and coordination. necklists were properly fi	ecorded all call-on/c quired information t	all-off times, o manage and		
	rules and pe the establis	ermanent orders. This inc hment of red signal and p ck, and trains restricted a	cluded time and loca prohibit exits, huma	tion of access, n form and		
	 The FWSO II Console. Re Information their shift, a acknowledg The RTCs als 	nspector observed two t lieving RTCs electronical Management (AIM) Sys- ind also initialed the logb ring defects and anomalia so verbally exchanged op rransfer of duties.	ransfer shifts at the y signed into Advan- tem screen at the be book (<i>"ROCC Daily Ad</i> es on the line.	Ops 1 ced ginning of ctivity Log")		
	Roadway Access:					
	duties associated with Console, commencing during the observation No. R-17-02 (Granting Mobile Flagger [AMF]). o The personr	nel followed proper radio	n the Ops 1 quests made anent Order 8 (Advanced 7 called on/off			
		dio. This included identifi foul time request (station lest.				



Remedial Action	The FWSO Inspector did not note any ROCC rules compliance defects.	
	 The RTC required 100 percent and word-for-word repeat backs for all requests, ensuring the track units were in receipt of and repeated back full instructions and clearance. The RTC properly broadcast all on/off times for all access requests. 	
	 Personnel acknowledged location and presence of AMFs required for each access request. The RTCs established and broadcasted all red signals and "prohibit exits," as well as human form and blue block track, via the AIM system as required by each level of protection. 	



Agency/Department Information

Federal Transit Administration

Inspection Date	YYYY	MM	DD	Report Number	20170707-WMATA-AG-3					
inspection Date	2017	07	07	Report Number	20170707-001		G-2			
Rail Agency Name	Washington Authority	Metropolitan	Area Transit	Rail Agency Department	POWR	СМ				
	I	Name		Email	Office Phone	ē	N	1obile Phone		
Rail Agency Department Contact Information	Agency Department									
Inspection Location	Crystal City (stal City (C09), track 1, and Crystal City 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 Sub	ject	Crystal	City (C0	9) – Safety	Briefing		Activity Co	de	TF)	JSB	OBS
Job Briefing Employee Name/Title	WMAT	A RWIC				npanied ctor?	Yes	Out Brief Conducted	Yes	Time	0100 0500	-	Outside Shift	Yes
Related Reports					Relat	ed CAPS /	Findings							
	Ref			Rule or	SOP		Standard		Other / T	ïtle		Checkl	ist Refer	ence
Related Rules, SOPs, Standards, or Other	RWPM													
standards, or other														
lease ation 1 anotion	Main Track	Yard	Stat	ion	occ	RTA Facility	FTA Office	Tue di Tue e	At-grade	e Tui	nnel	Eleva	ted	N/A
Inspection Location	х							Track Type	x					
Line(a)	C-Line	Track		N/A		Chain Ma	rker		From				То	
Line(s)	C-Line	Numb	er	N/A		and/or St	ation(s)	N/A			N/A			
	Head	Car Number		Number	of Cars									
Vehicles		N/A		N//	4	Equip	ment	N/A						
		•		job safety briefing from the WMATA roadway worker Number of Defects						0				
Description				•	protective equipment (PPE) and roadway worker ecked and the working limits were reviewed. The Recommended Finding?						No			

Inspector in Charge - Signature	DAM ANTHONY GIOVANDO	Digitally signed by ADAM ANTHONY GIOVANDO DN: c=US, o=U.S. Government, ou=FRA FRAFtWorthT: ANTHONY GIOVANDO Date: 2017.07.13 08:55:00 -05'00'	Date X, ou=DOT FRAFtWorthTX, cn=ADAM
Inspector in Charge – Name	Inspection Team		
Adam Giovando	Tino Sahoo		



	spot: used	ATA RWIC covered the neare s, hazards, clearance areas, c as part of the discussion. FWSO Inspector did not not	communication, and Rc							
Inspection Activity #	2	Inspection Subject	Crystal City (C09) Pu cable (1000 kcmil, 2		tive feeder	Activity Co	ode	TP	RM	OBS
Job Briefing Employee	WM	ATA RWIC	Accompanied	Out Brief	Yes	Time	0100-	Outside	Yes	

Employee Name/Title	WMATA R	WIC		Inspect		Yes	Conducted	Yes	Time	0100-	Shift	Yes
Related Reports				Related	l CAPS / Fin	dings						
	Ref			Rule or	SOP	Standard		Other / T	itle	С	hecklist Refe	rence
Related Rules, SOPs, Standards, or Other	INSTRUCT JUMPER, I TRANSITIC REPLACEN	NING MODIF IONS (EMI) EXPANSION ON POWER MENT SYSTE I 2, SEPTEM	FOR , AND CABLES MWIDE									
	INSPECTIC FOR TRAC 1000 KCM	VE MAINTE DN (PMI) K FEEDER C IIL / 1500 K(I 4, JUNE 16	ABLE - CMIL									
Inspection Location	Main Track	Yard	Station	OCC RTA Facility		FTA Office	Track Type	At-grade	e Tu	nnel	Elevated	N/A
	х						The type	x				
Line(s)	C-Line	Track	Number	track	Chain Ma	rker		From			То	
Line(3)	C-Line	Hack		1	and/or St	ation(s)	CM 317+00			CM 317+	+00	
Vehicles	Head Ca	r Number	Numb	er of Cars	Equip	mont	Desitive feede	er cable (1000 kcmil, 2 kV)				
venicies	N	/A		N/A	Equip	ment	POSITIVE TEEDE		JU KUIIII,	2 KV)		
				•	•	nt and electr		Number	of Defect		0	
		•	0		•		om the Crystal he cable was	Recomm	ended Fi	nding?		No
			ithin the pro					Remedia	Action I	Required?		No
Description	standing of Modificati replaceme observed minimum for Track F	off the groun ion Instruction ent system to the contrac insulation r eeder Cabl Dinspector	nd the positi on (EMI) for wide, issued tor meggerin esistance lis e – 1000 KCI and WMATA	SO Inspectors observed the contractor pulling and isitive feeder cable per the Engineering for jumper, expansion, and transition power cables led September 16, 2016. The FWSO Inspectors ering the positive feeder cable. The cable had the e listed in the Preventive Maintenance Inspection KCMIL/1500 KCMIL, issued June 16, 2015. ATA personnel did not note any defects during the							n?	No
Pomodial Action		ent process	•									
Remedial Action	N/A											

Agency/Department Information

Federal Transit Administration

Inspection Date	YYYY			Report Number	20170707-WMATA-AG-4					
inspection Date	2017	07	07	Report Number	20170707-WWATA-AG-4					
Rail Agency Name	Washington Authority	ton Metropolitan Area Transit y		Rail Agency Department	POWR Sub- Depa		artment	CBL. IN.		
		Name		Email	Office Phone	5	N	1obile Phone		
Rail Agency Department Contact Information										
Inspection Location	L'Enfant Plaz	Enfant Plaza (F03) to Anacostia (F06) - Track 1								

Inspection Form

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	5				
Recommended Finding	No	No				
Remedial Action Required ¹	No	No				
Recommended Reinspection	No	No				

Activity Summaries

Inspection Activity #	1	Inspec	tion Sub	ject			ant Plaza - oile Work C	Job Safety Bri rew)	iefi	ing	Activity Co	ode	TI	Ρ	JSB	OBS
Job Briefing Employee Name/Title	WMA	ATA RWI	(Accompanied Inspector?		Yes	Out Brief Conducted		Yes	Time	100 140		Outside Shift	No
Related Reports	N/A					Relat	ed CAPS /	Findings	٢	N/A						
	Ref					Rule	or SOP	Standard			Other / T	ïtle		Che	cklist Refer	ence
Related Rules, SOPs, Standards, or Other	03 AI	OVANCE		FLAGGER												
	RWP	Μ														
Inspection Location	Ma Tra		Yard	Station	С	OCC	RTA Facility	FTA Office	Т	Frack Type	At-grad	e Tur	inel	Ele	evated	N/A
	Х)	(
line(a)	F 1 in	_	Treals			track	Chain	Marker			From				То	
Line(s)	F-Lin	2	Паск	Number		1	and/o	Station(s)		N/A			N/	A		
	Hea	d Car N	umber	Numb	oer o	of Cars										
Vehicles		N/A			N/A		Equip	Equipment		N/A						

Inspector in Charge - Signature	DAM ANTHONY GIOVANDO	Digitally signed by ADAM ANTHONY GIOVANDO DN: c=US, o=U.S. Government, ou=FRA FRAFtWorth ANTHONY GIOVANDO Date: 2017.07.13 08:52:58 -05'00'	Date TX, ou=DOT FRAFtWorthTX, cn=ADAM
Inspector in Charge – Name	Inspection Team		
Adam Giovando	Tino Sahoo and Lee Emard		



	FWSO personnel received a job safety briefing from the WMATA roadway worker	Number of Defects	0
	in charge (RWIC). All personal protective equipment (PPE) and roadway worker protection (RWP) IDs were checked and the working limits were reviewed. The	Recommended Finding?	No
	WMATA RWIC covered the nearest hospital and safety rule of the day. The hot	Remedial Action Required?	No
Description	 spots, hazards, clearance areas, communication, and Roadway Access Guide were used as part of the discussion. 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) and 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 did not note any defects. 	Recommended Reinspection?	No
Remedial Action	N/A		1

Inspection Activity #	2 In	spection Sub	oject		Walk	ing Observa	tion (Cable I	nsp	pection)	Activity Co	de	Т	Р	WI	OBS
Job Briefing Employee Name/Title	WMATA	RWIC				mpanied ector?	Yes		Out Brief Conducted	Yes	Time		00- 00	Outside Shift	No
Related Reports	N/A				Related CAPS / Findings N/A										
	Ref				Rule or SOP Standard			Other / T	itle		Cheo	cklist Refer	ence		
Related Rules, SOPs, Standards, or Other	- TRST 10 AND INSI (REVISIO TRACTIO DRAWIN REVISION ENGINEE INSTRUC EXPANSIO POWER O SYSTEMU	ND STRUCTU 2000 TRACK M PECTION MA N 7, MARCH N POWER DE G (DD-TP-SSI I 0, AUGUST RING MODIF TIONS (EMI) DN, AND TRA CABLES REPL VIDE (REVISI BER 16, 2016	AAINTENAN NUAL 2017) SIGN -013, 2001) FICATION FOR JUMPI ANSITION ACEMENT ON 2,	ICE											
Inspection Location	Main Track	Yard	Station	0	осс	RTA Facility	FTA Office	1	Frack Type	At-grade	e Tu	innel	Ele	evated	N/A
	Х											X			
Line(s)	F-Line	Track	Number		track 1		/larker Station(s)		L'Enfant Pla	From Plaza (F03) Anacostia (F					
	Head C	ar Number	Num	her o	of Cars		51011(5)			dzd (FUS)		AI	lacusti	a (FUO)	
Vehicles		N/A	Num	N/A		Equip	ment	٢	N/A						
							WMATA has			Number	of Defec	ts			5
			•			•	ken and issu	es	noted were	Recomm	ended F	inding?	•		Yes
	entered		ise for nigh	Attime cable repair crews to fix. Remedial Action Required?							Yes				
Description	condition TRS 81+ TRS	TRST 1000, defect 3.2.2.1: Standing water surrounding 3 rd rail insulators at F1 Recommended Reinspection? Yes TRST 1000, defect 3.2.2.1: Trough/invert drain clogged from F1 081+00 to F1 083+00. 1000 to F1										Yes			



	 TRST 1000 Manual, 3.2.2.1: Standing water surrounding power feeder cable conduit stub-ups at F1 144+00. (See Figure 2.) TRST 1000 Manual, 3.2.2.4: Water leaking from tunnel ceiling onto 3rd rail cover board at F1 174+50. (See Figure 3.) 							
	 TRST 1000 Manual, 13.5.7: No cover on end approach at F1 169+00. Other Notable Observations: F1 053+00 – Trash and debris surrounding power feeder cable conduit stubups. F1 105+00 – Expansion cables need better support for standing off the tunnel wall. 							
Remedial Action	To achieve compliance with WMATA's requirements: WMATA must mitigate water intrusion and clear standing water at F1 81+00. WMATA must mitigate water intrusion and clean out trough/invert drain between F1 81+00 and F1 83+00. WMATA must mitigate water intrusion and clear standing water at F1 144+00. WMATA must mitigate water intrusion F1 174+50. WMATA must replace cover board over the end approach F1 169+00.							



FIGURE 1 – F1 081+00 – STANDING WATER SURROUNDING 3RD RAIL INSULATORS.



FIGURE 2 – F1 144+00 – STANDING WATER SURROUNDING POWER FEEDER CABLE CONDUIT STUB-UPS.



FIGURE 3 – F1 174+50 – WATER LEAKING FROM TUNNEL CEILING ONTO 3RD RAIL COVER BOARD.



Federal Transit Administration

Inspection Date	YYYY	MM	DD	Report Number	20170708-WM		C 1	
inspection Date	2017	07	08	Report Number	20170708-001	VIATA-A	10-1	
Rail Agency Name	Washington Authority	Metropolitan	Area Transit	Rail Agency Department	TRST	Sub- Department		ΤΚΙΝ
	1	Name		Email	Office Phon	e	N	1obile Phone
Rail Agency Department Contact Information								
Inspection Location	tion Location C- Line and J-Line, track 1, between King Street (C13) and Van Dorn Street Station (J02)							

Inspection Summary

Inspection Activity #	1	2	3	4	5	6
Activity Code	TRK-JSB-OBS	TRK-WI-OBS				
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	Inspe	ction Sub	ject	Roadwa	y Worke	r Protecti	on – Job Safe	ety Briefing	Activity Co	ode	TR	K	JSB	OBS	
Job Briefing Employee Name/Title			Unit 6034 Init # 600		Accompanied Inspector?		No	Out Brief Conducted	No	Time	090 140		Outside Shift	No		
Related Reports	N/A				Related CAPS / Findings N/A											
	Ref				Rule or S	OP		Standard		Other / T	Other / Title			cklist Refer	ence	
Related Rules, SOPs, Standards, or Other	RWP	N														
standards, or other																
	Mai Trac		Yard	Stati	on C	occ	RTA Facility	FTA Office		At-grade	e Tui	nnel	El	evated	N/A	
Inspection Location	х			х					Track Type	х						
										From				То		
Line(s)	C-Line J-Line		Track Numbe	er	track 1		Chain Marker and/or Station(s)		King Street (C13)			Van Dorn Street (J02)				
	Hea	d Car N	lumber	1	Number o											
Vehicles		N/A			N/A		Equip	ment	N/A							

Inspector in Charge - Signature	DAM ANTHONY GIOVANDO	Digitally signed by ADAM ANTHONY GIOVANDO DN: c=US, o=U.S. Government, ou=FRA FRAFtWorthTX, ANTHONY GIOVANDO Date: 2017.07.11 09:03:50-05'00'	Date pu=DOT FRAFtWorthTX, cn=ADAM
Inspector in Charge – Name Adam A. Giovando	Inspection Team Lee Emard		



	-	safety briefing			-		-		Number	of Defect	s			0	
		The briefing v		0	,			A's Roadway /IATA level-1 ID	Recomm	ended Fi	nding?			No	
Description		pe of protection N			· ·				Remedia	l Action F	Require	ed?		No	
Description		ptions were t					g.		Recomm	ended Re	einspec	tion?		No	
Remedial Action	N/A														
Inspection Activity #	2 In	spection Sub	ject	Track In	spectio	on Observa	tion		Activity Co	ode	TR	K	WI	OBS	
Job Briefing Employee Name/Title	RWIC, TF	RST Unit 6034	nit 6034			ompanied _{Yes} Out Brief Conducted		No	Time	090 140		Outside Shift	No		
Related Reports	Safety Di	irective 15-1			Relat	ed CAPS /	Findings	CAP: 2-18-A a	ind 2-19-A	I					
	Ref			Rule or S	SOP		Standard		Other / T	ïtle		Check	list Refe	rence	
Related Rules, SOPs, Standards, or Other	TRST-100	00 rev. 6													
Inspection Location	Main Track	Yard	Stati	ion (occ	RTA Facility	FTA Office	Track Type	At-grade	e Tu	nnel	Elev	ated	N/A	
	х		х						х						
Line(s)	C-Line ar			track 1		Chain Ma			From				То		
2	J-Line	Numbe	er			and/or S	tation(s)	King Street (C	:13)		Van [Dorn Str	eet (J02)	
Vehicles		Car Number	١	Number o N/A		Equip	oment	N/A							
	The FWS	O Inspector p	perforn	ned an o	bservat	ion of a W	MATA track i	nspection	Number	of Defect	s			5	
		track one of	the C-L	Line and .	J-Line b	etween Ki	ng Street and	Van Dorn	Recomm	ended Fi	nding?			Yes	
	Street st	ations.							Remedia	l Action F	Require	ed?		Yes	
Description	The follo	TRST 1000 31A5 cabin wires expo TRST 1000 cabinet bo Permanen acknowled appear to s group on t addressed Permanent acknowled but did not the work g	defect defect ased to defect x was i t Orde ge the slow do rack 1, in WIV t Orden ged the appear roup o	t 13.5.7: t 10.18: T or was br o element t 3.1.2.5: not work t 3.1.2.5: r T-16-07 e track cre own fron , at J1 51: MATA's ap r T-16-07 e track cr ar to slow on track 1	No cove The trace oken of s at J1 ! The en ing at J: T At 10 ew world n opera 7+00. R opproach ': At 10 rew world rew world y down , at J1 5	er on end a ckside heat ff and the l 557+00. nergency t 1 680+00. 16 hours, t king on the ting speed emedial Ad to R-2-18 38 hours, ' rking on th from oper 64+00. Ren	approach at J er control pa box was smas rip station (E the train open track, blow while passin ction for this -A and R-2-19 the train open track and b ating speed v	nel HC-J01- shed leaving TS) light on the rator did not the horn or g the work defect is 3-A. rator olew the horn, vhile passing for this defect	Recomm	ended Re	einspec	tion?		Yes	
Remedial Action	To achiev	ve complianc WMATA m WMATA m WMATA m	ust rep ust rep	place the pair the e	cover l electrica	board on t al box at J1	. 557+00.	ach at J1 640+0	0.						



Agency/Department Information

Federal Transit Administration

Inspection Date	YYYY	MM	DD	Report Number	20170709-WN	10T0 0	C 1			
inspection date	2017	07	09	Report Number						
Rail Agency Name	Washington Authority	Metropolitan	Area Transit	Rail Agency Department	TRST	Sub- Department		ΤΚΙΝ		
	1	Name		Email	Office Phone	e	N	lobile Phone		
Rail Agency Department Contact Information										
Inspection Location	on Location Switches at Franconia-Springfield (J03) and Alexandria Yard Lead (C98) Interlockings									

Inspection Summary

Inspection Activity #	1	2	3	4	5	6
Activity Code	TRK-JSB-OBS	TRK-WI-OBS				
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	Inspec	tion Subj	ect	Roadwa	y Work	er Protecti	on – Job Safe	ety Briefing	Activity Co	de	TR	К	JSB	OBS
Job Briefing Employee Name/Title	TRST	Unit 604	44			Accor Inspe	npanied ctor?	No	Out Brief Conducted	No	Time	080 140		Outside Shift	No
Related Reports	N/A					Relate	ed CAPS /	Findings	N/A						
	Ref			Rule or S				Standard		Other / T	ïtle		Check	list Refe	rence
Related Rules, SOPs, Standards, or Other	RWPN	Λ													
standards, or other															
	Mair Trac		Yard	Stati	on C	СС	RTA Facility	FTA Office	T	At-grade	e Tu	nnel	Elev	ated	N/A
Inspection Location	x								Track Type	х)	K	
1	C-Line	and	Track		tracks 1	1	Chain Ma	rker		From	То				
Line(s)	J-Line	9	Numbe	r	and 2		and/or St	ation(s)	Franconia-Sp	ringfield (JO	3)	Yard	Lead Int	terlockin	g (C98)
	Hea	d Car N	umber	1	Number o	f Cars									
Vehicles		N/A			N/A		Equip	ment	N/A						
Description	-		, 0						ia-Springfield	Number	of Defect	s			0
Description	Statio	n. The b	oriefing w	as the	brough an	nd fully	compliant	with WMATA	A's Roadway	Recomm	ended Fi	nding?			No

Inspector in Charge - Signature	DAM ANTHONY GIOVANDO	Digitally signed by ADAM ANTHONY GIOVANDO DN: c=US, o=U.S. Government, ou=FRA FRAFtWort ANTHONY GIOVANDO Date: 2017.07.11 15:44:48 -05'00'	Date TX, ou=DOT FRAFtWorthTX, cn=ADAM
Inspector in Charge - Name Adam Giovando	Inspection Team Lee Emard		



	Worker's Protection Manual (RWPM) requirements. It included WMATA level-1 ID	Remedial Action Required?	No
	check, type of protection, train approach warning (TAW), potential hazards, hot spots, hospital locations, and safety rule of the day.	Recommended Reinspection?	No
	No exceptions were taken with the job safety briefing		
Remedial Action	N/A		

· Unit 6344 rev. 6 Yard Sta Track Number Number A Ispector perfor	track 1	Inspe Relate	npanied ctor ed CAPS / F RTA Facility	Yes Findings Standard FTA	Out Brief Conducted N/A	No Other / Ti	Time tle	080 140	-	utside Shift	No
Yard Sta Track Number A	ation (SOP	RTA	Standard	N/A	Other / Ti	tle				
Yard Sta Track Number A	ation (Other / Ti	tle				
Yard Sta Track Number A	track 1	occ		FTA				Checklis	st Reference		
Track Number A	track 1	000		FTA							
Track Number A	track 1	220		FTA							
Number Number A					Track Type	At-grade T		nnel	Elevated		N/A
Number Number A									Х		
A	2	Land			From ingfield (J03)	Vard I	Lead Inte	To	(098)	
A	Number o	of Cars			Trancoma-Spi	inglieid (505	/	Taru I	Leau Inte	IUCKIIIg	(0)0)
	N/A		Equip	ment	N/A						
ispector perior			on of a WM	IATA mainlin	e switch	Number o	f Dofoot				0
team on tracks						Recomme		-			8 Yes
witches inspected were: C98 1A, 3B, 5B, J03 11B, 11A, 9, 3B, 1B, 3A, and 1A.									45		Yes
Inspector obse	rved the fo	ollowing	Red color	-coded defe	·+·	Remedial	ACTION	equire	u:		163
870+00, switch TRST 1000 def e	og plates w found in a cotter pin, ons were cc or was pres coded defe ect, Table 9 itch 1B, tra gs of 1/8 in ect 9.22.2. rved three ect 9.27.3. rved five m ect 13.5.7. 1A. ect 9.27.3. rved five m ect 9.27.3. rved five m	vith misss red con and two prrected sent. cts were 9-3: Won lock 2: Fro ch. Frog at . hissing cl No cove Frog at . hissing cl Frog at .	sing or loos adition with o loose bol by WMAT, e observed rn Tread of og showed J03, switch lips on the J03, switch lips on the J03, switch lips on the J03, switch ps on the jo	e lag screws a loose bolt ts at the hee A employees Frog Castin excessive we 3B, track 2: joints at the pproach on t 1A, track 1: joints at the 3A, track 1:	Note that at the heel I of frog. while the g Standards. ear on The FWSO toe of the rack 1, CM The FWSO toe of the The FWSO toe of the The FWSO oe of the frog.	Recomme	ended Re	inspect	tion?		Yes
870 TRS	0+00, switch ST 1000 defe pector obse g. ST 1000 defe pector obse ST 1000 defe	0+00, switch 1A. ST 1000 defect 9.27.3. pector observed five m g. ST 1000 defect 9.27.3. pector observed six mi ST 1000 defect, Tables	0+00, switch 1A. ST 1000 defect 9.27.3. Frog at pector observed five missing c g. ST 1000 defect 9.27.3. Frog at pector observed six missing cli ST 1000 defect, Tables 9-4 and	0+00, switch 1A. ST 1000 defect 9.27.3. Frog at J03, switch pector observed five missing clips on the g. ST 1000 defect 9.27.3. Frog at J03, switch pector observed six missing clips on the ju- ST 1000 defect, Tables 9-4 and 9-5: Chipp	0+00, switch 1A. ST 1000 defect 9.27.3. Frog at J03, switch 1A, track 1: pector observed five missing clips on the joints at the g. ST 1000 defect 9.27.3. Frog at J03, switch 3A, track 1: pector observed six missing clips on the joints at the t ST 1000 defect, Tables 9-4 and 9-5: Chipped Point Sta	5T 1000 defect 9.27.3. Frog at J03, switch 1A, track 1: The FWSO pector observed five missing clips on the joints at the toe of the g. 5T 1000 defect 9.27.3. Frog at J03, switch 3A, track 1: The FWSO pector observed six missing clips on the joints at the toe of the frog. 5T 1000 defect, Tables 9-4 and 9-5: Chipped Point Standards. C98,	0+00, switch 1A. ST 1000 defect 9.27.3. Frog at J03, switch 1A, track 1: The FWSO pector observed five missing clips on the joints at the toe of the g. ST 1000 defect 9.27.3. Frog at J03, switch 3A, track 1: The FWSO pector observed six missing clips on the joints at the toe of the frog. ST 1000 defect, Tables 9-4 and 9-5: Chipped Point Standards. C98,	0+00, switch 1A. ST 1000 defect 9.27.3. Frog at J03, switch 1A, track 1: The FWSO pector observed five missing clips on the joints at the toe of the g. ST 1000 defect 9.27.3. Frog at J03, switch 3A, track 1: The FWSO pector observed six missing clips on the joints at the toe of the frog. ST 1000 defect, Tables 9-4 and 9-5: Chipped Point Standards. C98,	0+00, switch 1A. ST 1000 defect 9.27.3. Frog at J03, switch 1A, track 1: The FWSO pector observed five missing clips on the joints at the toe of the g. ST 1000 defect 9.27.3. Frog at J03, switch 3A, track 1: The FWSO pector observed six missing clips on the joints at the toe of the frog. ST 1000 defect, Tables 9-4 and 9-5: Chipped Point Standards. C98,	0+00, switch 1A. 5T 1000 defect 9.27.3. Frog at J03, switch 1A, track 1: The FWSO pector observed five missing clips on the joints at the toe of the g. 5T 1000 defect 9.27.3. Frog at J03, switch 3A, track 1: The FWSO pector observed six missing clips on the joints at the toe of the frog.	0+00, switch 1A. ST 1000 defect 9.27.3. Frog at J03, switch 1A, track 1: The FWSO pector observed five missing clips on the joints at the toe of the g. ST 1000 defect 9.27.3. Frog at J03, switch 3A, track 1: The FWSO pector observed six missing clips on the joints at the toe of the frog. ST 1000 defect, Tables 9-4 and 9-5: Chipped Point Standards. C98,



	switch point 23 inches back from the point of switch 18 inches long and up to a 5/16 chip.								
	To achieve compliance with WMATA's requirements:								
	• WMATA must surface at C98, switch 3B, on track 2, and correct fastener condition under frog.								
	 WMATA must weld frog wings at J03, switch 1B, on track 2, and bring back in tolerance. 								
	WMATA must weld frog point at J03, switch 3B, on track 2, and bring back in tolerance.								
Remedial Action	• WMATA must replace clips at J03, switch 3B, on track 2, at joint on toe of frog.								
	WMATA must replace cover on end approach on track 1, CM 870+00, switch 1A.								
	WMATA must replace clips at J03, switch 1A, on track 1, at toe-of-frog joints.								
	WMATA must replace clips at J03, switch 3A, on track 1, at toe-of-frog joints.								
	WMATA must replace the turnout switch point at C98, switch 1A.								



United States Department of Transportation Federal Transit Administration

Agency/Department Information

Inspection Date	YYYY	MM	DD	Report Number	20170711-WMATA-WP-1				
inspection Date	2017	07	11	Report Number					
Rail Agency Name	Washington Authority	Metropolitan	Area Transit	Rail Agency Department	RTRA Sub- Department ROCC			ROCC	
		Name		Email	Office Phone	e	N	Nobile Phone	
Rail Agency Department									
Contact Information									
		0 1 10	. (2000)						
		ons Control Ce	nter (ROCC)						
Inspection Location	3500 Pennsy	Drive							
	Landover, M	D 20785							

Inspection Summary

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

Activity Summaries

Inspection Activity #	1	Inspection Sul	oject	ROCC R	ules Co	ompliance O	bservation		Activity Co	ode	ROCC	RC	OBS	
Job Briefing Employee Name/Title	N/A					ompanied ector?	N/A	Out Brief Conducted	Yes	Time	1000- 1500	Outside Shift	No	
Related Reports		Management Final Report, Ju			Related CAPS / Findings Required Acti				tions: R-1-6-a, R-1-6-b; R-1-9-a					
	Ref			Rule or S	OP		Standard		Other / T	ïtle	C	Checklist Refe	rence	
Related Rules, SOPs, Standards, or Other	MSRPH	Section 2 Rules (Ra Operation Rules 1.6	adio Us on):	sage and										
	RWPM	RWPM			Permanent Orders: No. T-16-10, No. R-17- 03, and No. R-17-02									
	Main Track	Yard	Stati	on C	DCC	RTA Facility	FTA Office	Tree els Tree s	At-grade	e Tur	nnel	Elevated	N/A	
Inspection Location					х			Track Type					х	
Line(s)	N/A			N/A					From			То		

Inspector in Charge - Signature			Date
		ally signed by WINSLOW L. POWELL =US, o=U.S. Government, ou=FTAHQ, 2017.07.18 14:58:40 -04'00'	ou=DOT Headquarters, cn=WINSLOW L. POWELL
Inspector in Charge – Name	Inspection Team	·	
Winslow Powell	Tamara Powell		



	Track Number		Chain Marker and/or Station(s)	N/A		N/A	
Vehicles	Head Car Number	Number of Cars	Equipment	N/A			
	N/A	N/A					
	An FWSO Inspector con Operations Control Cent				Number of Defe	ects	0
	Operations (Ops) 2 Cons				Recommended	Finding?	No
	with the Metrorail Safet				Remedial Action	n Required?	No
	permanent orders and r procedures. The inspect overall performance and Radio Procedures and P	or also observed oth response to incider	er ROCC procedures a	ind noted RTC's			
	 each radio br ended each t NOTE: Howe transmission Inspector info of the result was already r and reviewed The RTCs cool operators, st service. They anomalies ar roadway acco The RTCs em standards for involving pov The RTCs ems instruction, c word read base 	voadcast. The RTC acl ransmission with "ov ver, the controller di when the communic ormed the Assistant recorded during thei noted on their safety d with the RTCs at the ordinated between the ation managers, and ensured that mainter do operating condition ess requests and insp ployed International r radio transmissions ver requests and alpl sured each unit or op learance, and transmisch.	d not say "out" on eve cation loop concluded Superintendent, who ir RTC internal safety a r briefing agenda that e beginning of the mid- he field portable track each other to monito enance personnel wer ons that may potential bections. Civil Aviation Organiz and phone calls with hanumeric station ide perator acknowledged nission with 100 perce	equests and ery . The FWSO was also aware judits. This item was conducted day shift. units, train r revenue e aware of ly impact their ation (ICAO) personnel ntification. each operating ent word-for-			
Description	personnel of	all operational anom	riate radio broadcasts nalies and established				
	access protei	ction in place.			Recommended	Reinspection?	No
	 roadway accorrection The RTCs ma ("Maintenan the level of p monitor accorrection Foul time che rules and per the establish blocked track The FWSO In at the Ops 2 Advanced Inf beginning of Log") acknow The RTCs also upon each track 	spector reviewed all ess and foul time. intained a written log ce Access Form") wit rotection, and other ess and coordination. ecklists were properly manent orders. This ment of red signal ar s, and trains restricte spector observed tw Console. Relieving R formation Management their shift, and initia vledging defects and	required checklists re g of all personnel on t th recorded all call-on/ required information y filled out in accordat included time and loc nd prohibit exits, hum ed and/or affected by o to transfer shifts for bo TCs electronically sign- ent (AIM) System scree led the log book (<i>"RO</i> anomalies on the line l operating conditions	he roadway (call-off times, to manage and nee with Metro ration of access, an form and each request. oth controllers ed onto en at the <i>CC Daily Activity</i> .			
	Roadway Access:						
	The FWSO Inspector obs duties associated with R Console, commencing a compliance with two for Both RTCs were complia Time) and Permanent O	WP access requests t beginning of shift. 1 Il time requests mad nt with Permanent C	for five work crews or The FWSO Inspector o Ie for the crews' level Order No. R-17-02 (Gra	n the Ops 2 bserved of protection. anting Foul			



	• The personnel followed proper radio protocol when they called on/off	
	over the radio. This included identification of self and work crew, the	
	location of foul time request (station or chain marker), and the reason	
	for the request.	
	 Personnel acknowledged location and presence of AMFs required for each access request. 	
	 The RTCs established and broadcasted all red signals and "prohibit 	
	exits," as well as human form and blue block track, via the AIM system as required by each level of protection (e.g., Train Approach Warning [TAW], foul time, etc.).	
	• The RTC required 100 percent and word-for-word repeat backs for all requests, ensuring the track units were in receipt of and repeated	
	back full instructions and clearance.	
	 The RTCs properly broadcast all on/off times for all access requests. 	
	The FWSO Inspector did not note any ROCC rules compliance defects.	
	Other Notable Observations:	
	 FWSO inspector also met with the Superintendent of RTC Training regarding training schedule and progress of new RTCs. The Superintendent reported all trainees are engaged, and that training is presently going well. The FWSO Inspector will follow up again next week. 	
Remedial Action	N/A	



Federal Transit Administration

Agency/Department Information

	YYYY	MM	DD		20470742 \\		~ 4			
Inspection Date	2017	07	12	Report Number	20170712-WMATA-AG-1					
Rail Agency Name	Washington Authority (W	Metropolitan A 'MATA)	Area Transit	Rail Agency Department	Car Maintenance (CMNT) Sub- Department Inspection					
	Name				Email Office Pho			Iobile Phone		
Rail Agency Department										
Contact Information		_								
Inspection Location	Shady Grove	Shady Grove Rail Service and Inspection Facility (A99)								
Inspection Summary										

Inspection Activity # 1 2 3 4 5 6 **Activity Code** VM-SI-OBS **Inspection Units** 1 **Inspection Subunits** 1 1 Defects (Number) **Recommended Finding** Yes **Remedial Action Required¹** Yes **Recommended Reinspection** Yes

Activity Summaries

Inspection Activity #	1	Inspec	tion Subj	ect	-	bservati) bion Facil		y Grove Rail S	Service and	Activity Co	ode	VN	Л	SI	OBS
Job Briefing Employee Name/Title	N/A						No No		Out Brief Conducted	Yes	Time	073 100		Outside Shift	No
Related Reports	N/A					Related CAPS / Findings N/A									
	Ref					SOP		Standard		Other / T	ītle		Checklist Reference		
Related Rules, SOPs, Standards, or Other	N/A	N/A th H			the Car Hoist fo	Operating Instructions for the Car Hoist and Body Hoist for 4 and 5 South Dated December 7, 2016		N/A							
	Mai Trac		Yard	Stat	ion	осс	RTA Facility	FTA Office		At-grad	e Tui	nnel	Ele	evated	N/A
Inspection Location	1100						X	Office	Track Type						x
Line(s)	N/A		Track Numbe	er	N/A		Chain Ma and/or St		N/A	From		N/A		То	
	Hea	ad Car N	umber		Number	of Cars									
Vehicles		N/A			3168-3 3226-3		Equip	ment	Car Hoist and	Body Hoist					

Inspector in Charge - Signature	DAM ANTHONY GIOVANDO	Digitally signed by ADAM ANTHONY GIOVANDO DN: c=US, o=U.S. Government, ou=FRA FRAFtWorthTX, ANTHONY GIOVANDO Date: 2017.07.14 11:25:05 -05'00'	Date ou=DOT FRAFtWorthTX, cn=ADAM
Inspector in Charge – Name Adam Giovando	Inspection Team Bill Hultsch		



	The FWSO Inspector observed a periodic "B" inspection being conducted on rail	Number of Defects	1
	vehicles 3168 – 3169 as well as a periodic "A1" inspection on rail cars 3226 – 3227. Documentation used for these periodic maintenance activities was reviewed to	Recommended Finding?	Yes
	determine if versions being used were current. Inspectors also reviewed the	Remedial Action Required?	Yes
Description	 mechanics' electronic access to maintenance documentation using MaximoPROD with Documentum. WMATA is currently updating their periodic maintenance manuals. Maintenance manuals being used for the 3000 series rail vehicles at the time of this inspection were dated 6/30/17. Maintenance manuals available for the 7000 series rail vehicles were dated 4/21/17. WMATA reported to inspectors that an update to the 7000 series manuals is expected in the next few days. The MaximoPROD system allows mechanics easy and ready access to maintenance documentation electronically, as well as access to work orders to review individual rail vehicle historical maintenance activities. The following non-color-coded defect was observed: Operating Instructions for Car Hoist and Body Hoist for 4 and 5 South: Inspector observed a hoist power switch left in the on position on the Master Control Station for an unattended car hoist and body hoist. The FWSO Inspector reviewed the operating instructions hanging on the car hoist and body hoist for 4 and 5 South, dated December 7, 2016. The instructions stated the hoist power switch should be in the "off" position once the "up" or "down" operation is completed. (See Figure 1.) The FWSO Inspector advised the WMATA maintenance supervisor in attendance to this observation and he responded that he would address it. 	Recommended Reinspection?	Yes
Remedial Action	To achieve compliance with WMATA's requirements: • WMATA must follow established procedures for hoisting railcars in service	and inspection facilities.	

Photos:



Figure 1: Hoist control panel power left on



Agency/Department Information

Federal Transit Administration

Inspection Date	YYYY	MM	DD	Report Number	20170712-WMATA-WP-1				
inspection Date	2017	07	12	Report Number					
Rail Agency Name	Washington Authority	Metropolitan	Area Transit	Rail Agency Department	RTRA Sub-Department ROCC				
	I	Name		Email	Office Phone	ē	N	1obile Phone	
Rail Agency Department Contact Information									
Inspection Location	Rail Operatic 3500 Pennsy Landover, M		nter (ROCC)						

Inspection Summary

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

Activity Summaries

Inspection Activity #	1	1 Inspection Subject				and Maintenance Operations Center (MOC) Compliance Observation				Activity Code		RC	OBS
Job Briefing Employee Name/Title	N/A				N/A Accompanied N/A Out Brief Conducted Yes Time				1230- 1730	Outside Shift	No		
Related Reports	Safety Management Inspection (SMI), Final Report, June 17, 2015				Related CAPS / Findings Required Acti				tions: R-1-6-a, R-1-6-b				
	Ref			Rule or SOP			Standard	Other / Title			Checklist Reference		
Related Rules, SOPs, Standards, or Other	MSRPH			Section 1 – General Rules (Radio Usage and Operation): Rules 1.69 – 1.88									
	RWPM			Permanent Orders: No. T-16-10 and No. R- 17-02									
	Mai Trac	Yard	Statio	on O	СС	RTA Facility	FTA Office		At-grade	e Tur	nnel	Elevated	N/A
Inspection Location					х			Track Type					х

Inspector in Charge - Signature		Date
	WINSLOW L. POWELL	Digitally signed by WINSLOW L. POWELL DN: c=US, o=US. Government, ou=FTAHQ, ou=DOT Headquarters, cn=WINSLOW L. POWELL Date: 2017.07.21 L2:26:20-0400
Inspector in Charge – Name	Inspection Team	
Winslow Powell	Tamara Powell	



Line(s)	N/A	Track	N/A	Chain Marker		From		То
				N/A				
Vehicles	Head Car N		Number of Cars	Equipment	N/A			
	N/A		N/A					1
		•			Number of Defec		0	
	Operations (Ops) 3 Conse	ole-Yellow and Gre					
Description	Operations of Operations of Metrorail Sa orders and r inspector als the ROCC As Maintenance Radio Proce 0 T T e t t 0 T 0 T 0 T 0 T 0 T 0 T 0 T 0 T 0 T 0 T	Control Centri (Ops) 3 Conso fety Rules ar ules that gov so attended a sistant Supe e Operations dures and Pri the FWSO Ins the RTCs ackr nding each t ransmissions the RTCs ackr nding each t ransmissions the RTCs ackr the RTCs conso the controller the RTCs conso the RTCs enso the RTCs enso perating pow the RTCs enso perating pow the RTCs enso perating inst vord-for-wor the RTCs made tersonnel of a ccess protec ccess:	er (ROCC). The insp ole-Yellow and Gre and Procedures Han yern roadway acce a Rail Traffic Contr rintendent and pe s Center (MOC) Ass rotocols: spector observed t nowledged and res ransmission with ' . <u>NOTE</u> : The contru- e overlapping radio to completed the pr rdinated between thion managers, as ys. oloyed Internation radio transmission rer requests and al ured every unit or truction, clearance d read back. de clear and appro- all operational and tion in place.	npliance observation at pector observed radio a seen lines for compliance (dbook (MSRPH), as well ss activities and radio p oller (RTC) safety briefin rformed an observation sistant Superintendent. he RTCs during each rad sponded promptly to all over" and "out" on the oller did not say "out" o nication loop concluded o calls which came in fro evious one.) the field portable track well as each other, to r al Civil Aviation Organiz as and phone calls with phanumeric station ide operator acknowledged and transmission with priate radio broadcasts smalies and established	ctivities on with the las permanent rocedures. The of facilitated by /training of the lio broadcast. radio requests, majority of n every (This was the om the field as units, train nonitor service ation (ICAO) personnel ntification. leach 100 percent that informed roadway	Number of Defect Recommended F Remedial Action	inding? Required?	0 No No
	two work cri requests ma the RWP ma Mobile Flagg o T c la r o P e o T e l u p o T r c f o T	ews on the C de for the cr inual, operat ger [AMF]). The personne wer the radic position of ac- equest. The resonnel ack the RTCs esta xits," as well information N rortection. The RTC requi equests, ensu- tack full instr	ops 3 Console. The ews' level of prote- ing rules, and Perr d followed proper o. This included ide cess (station or ch equest. dblished and broad as human form an Aanagement (AIM ired 100 percent a uring the track uni uctions and cleara	inspector observed any ection. Both RTCs were of nanent Order No. R-17- radio protocol when the entification of self and w ain marker), and the rea- on and presence of AMF casted all red signals ar nd blue block track, via to blue block track, via to system, as required by nd word-for-word repe- ts were in receipt of and	foul time compliant with 03 (Advanced ey called on/off ork crew, the ason for the is required for d "prohibit the Advanced each level of at backs for all d repeated			



	controllers on the afternoon shift, divided by duties (radio and buttons). Agenda items included: headways and On-time-Performance (OTP) percentages; scheduled shutdown; communications (reminder and review of Permanent Order T-16-10, e.g., "over" and "out" requirements; incident documentation, and electronic log roll-out.	
	 Specifically, Assistant Superintendent commended afternoon shift RTC's for OTP performance improvement. For the second half of same shift, the FWSO Inspector sat with the MOC Assistant Superintendent who was previously attending a staff meeting. 	
	 The FWSO Inspector: Reviewed overall duties of three desks under the MOC Assistant Superintendent's oversight: power; communications/Automatic Train Control (ATC), and PLNT. Governing policies and procedures of the MOC: Superintendent MOC Manual and Organizational Administrative Procedure (OAP) 200-2. Reviewed log-on procedures (AIM, Intranet/Outlook, and paper logs) for MOC personnel. 	
	 Discussed the status of MOC personnel manpower and shift coverage requirements. Reviewed and discussed the MOC Assistant Superintendent's daily summary log. Listened to four service calls, and observed response and 	
Remedial Action	notification process.	



Federal Transit Administration

Agency/Department Information

Increation Date	YYYY	MM	DD	Poport Number	er 20170713-WMATA-AG-1				
Inspection Date	2017	07	13	Report Number					
Rail Agency Name	Washington Metropolitan Area Transit Authority (WMATA)			Rail Agency Department	Car Maintenance (CMNT)	Sub- Department Ins		Inspection	
	Name			Email	Office Phone		Mobile Phone		
Rail Agency Department Contact Information									
contact mormation									
Inspection Location	Shady Grove Rail Service and Inspection Facility (A99)								
Inspection Summary									

Inspection Summary

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

Activity Summaries

Inspection Activity #	1	Inspe	nspection Subject				hop Observations – Shady Grove Rail Service and Ispection Facility				Activity Code		1	SI	OBS
Job Briefing Employee Name/Title	N/A				Accompanied Inspector? No Out Brief Conducted			Out Brief Conducted	Yes	Time	070 110	-	Outside Shift	No	
Related Reports	Safety Directive 16-2 20170712-WMATA-AG-1					Related CAPS / Findings CAP: TOC-OSP Remedial Action									
	Ref Rule or				Rule or S	OP		Standard		Other / T	itle		Checklist Reference		
Related Rules, SOPs, Standards, or Other	N/A			2000/3000 Series Periodic Inspection "B" Inspection Rev. 1.0 09/15/2015 Operating Instructions for the Car Hoist and Body			N/A								
		Hoist for 4 and 5 South Dated December 7, 2016													
Increastion Location	Ma Tra		Yard	Stati	ion C	DCC	RTA Facility	FTA Office	Trock Tune	At-grade	At-grade Tunnel		Elev	vated	N/A
Inspection Location							х		Track Type						х
	N/A Track Number			Chain Mark		ker		From			То				
Line(s)			er	N/A	N/A and/or Sta		ition(s)	N/A		N/A					

Inspector in Charge - Signature	ADAM ANTHONY GIOVANDO	Digitally signed by ADAM ANTHONY GIOVANDO DN: c=US, o=U.S. Government, ou=FRA FRAFtWorthTX, o ANTHONY GIOVANDO Date: 2017.07.14 13:50:13-05'00'	Date ou=DOT FRAFtWorthTX, cn=ADAM
Inspector in Charge – Name Adam Giovando	Inspection Team Bill Hultsch, Bob Maniuszko		



	Head Car Number	Number of Cars				
Vehicles	N/A	3268 - 3269	Equipment	Car Hoist and E	3ody Hoist	
	An EWSO Inspector obs	3260 - 3261 erved a periodic "B" insp	ection on rail vehicle	s 3268 - 3269	Number of Defects	1
		hanic performing Task 20				
	U	Check was interviewed. The			Recommended Finding?	Yes
		priate instrumentation (e		•	Remedial Action Required?	Yes
		pressure and height of th . No exceptions were tak		noes and		
		at the team was provided fing Checklist" was used.		0		
	The following non-colo	r-coded defect was obse	rved:			
Description	observed a Master Com see if the operating pro when the lift was in use	for Car Hoist and Body H trol Station for a car and cedures were being follo and not attended. The p that was checked in conf	body hoist. This was wed regarding powe ower was found to b	conducted to r being "off" pe on the		
	A remedial action for the WMATA-AG-1.	his defect was previously	v issued in FWSO rep	ort 20170712-		
	procedure and the cond	vith the shop supervisor o dition of the power switcl ed he will address it. A fo	h. He noted the cond	lition, turned	Recommended Reinspection?	Yes
	Other Notable Observa	tions:				
	team visited located belo deficiencies • Exterior doo of the four d entry. All fou	ance with hazardous mat each shop within the fac w the shop floor (i.e., wa were found. rs to the car wash facility loors had the door hardw ur doors were secured. N operator was wearing app	ility and the materia rehouse in the baser were all labeled and vare removed to prevo o exception was take	l storage area nent). No l locked. Two vent outside en.		
Remedial Action		PPE), as well as the seat l e encountered low-visibil were noted.	-			



Photos:

Contractor Safety Briefing Checklist

General

- □ Ensure the "fire plan" for the shop and exits are pointed out.
- □ Follow all OSHA safety rules in or outside the shop pertinent to the tasking.
- □ Follow all WMATA safety rules in or outside the shop pertinent to the tasking.
- Ensure all equipment utilized is serviceable and is current with any required calibration.
- □ Ensure all ladders and/or hoists used are serviceable and safe for use.
- Ensure ONLY trained and qualified personnel operate the overhead and JIB cranes

Rail Vehicle and Running Maintenance Machines

- No work will be performed on any rail vehicle and/or running maintenance machines without the specific knowledge and concurrence from the on-duty supervisor.
- The first time an ETP and/or EMI is performed on a rail vehicle or running maintenance machine, or when requested, QAAW shall be present and/or been afforded the opportunity to be present prior to any work commencing.
- □ All work performed will be documented in MAXIMO.
- □ All rail vehicle radio communications with the tower and/or on-duty supervisor must follow proper radio etiquette and WMATA protocols.
- □ If work does take place on a rail vehicle and/or running maintenance machines, the on-duty supervisor shall be briefed on rail vehicle or running maintenance machines status prior to contractor departure from shop.
- □ _

Shop Fixed Equipment

- □ Inform the contractor of the CMNT SOP 3.07 LOTO procedures and adherence there to.
- □ Rail vehicle and running maintenance machine lifts shall ONLY be used by trained and qualified individuals.
- □ All equipment shall remain in a safe condition for operation and/or taken out of service by the on-duty Supervisor prior to the contractor's departure from a shop.
- □ The on-duty supervisor makes the final determination on serviceability of all equipment and/or parts.

July 20, 2015, Rev 2

CMNT Supervisor Printed Name:

CMNT Supervisor Signature:

Date: _____

Contractor Printed Name:	

Contractor Signature:

Date:

Figure 1: Contractor Safety Briefing Form



Agency/Department Information

Inspection Date	YYYY	MM	DD	Report Number	20170714-WN	1 A T A A	C 1		
Inspection Date	2017	07	14	Report Number	20170714-000	VIATA-A	G-1		
Rail Agency Name	Washington Authority	Metropolitan	Area Transit	Rail Agency Department	TRST Sub- Department TK				
	1	Name		Email	Office Phone	е	N	1obile Phone	
Rail Agency Department Contact Information									
Inspection Location	Stadium-Arm	nory Station (E	008)						

Inspection Summary

Inspection Activity #	1	2	3	4	5	6
Activity Code	TRK-JSB-OBS	TRK-RC-OBS				
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	No				

Activity Summaries

Inspection Activity #	1	Inspect	ion Subj	ect	Roadwa	ay Worl	ker Protecti	on – Job Safe	ety Briefing	Activity Co	ode	TRI	K	JSB	OBS
Job Briefing Employee Name/Title	Advan #6145	TRST Ur ice Watc and 604 TRST Uni	hman Ti 12	RST Ur	nit		mpanied ector?	Yes	Out Brief Conducted	Yes	Time	070 150		Outside Shift	No
Related Reports	N/A					Relat	ed CAPS /	Findings	N/A						
	Ref				Rule or S	SOP		Standard		Other / 1	ītle		Check	list Refer	ence
Related Rules, SOPs, Standards, or Other	RWPN	1													
In a section I continue	Mair Trac	Y	ard	Stati	on C	occ	RTA Facility	FTA Office	Treads Treas	At-grad	e Tui	nnel	Eleva	ated	N/A
Inspection Location	х			х					Track Type	x		х			
line(a)	Diling		Track		tun als 1		Chain Ma	rker		From		L		То	
Line(s)	D-Line	2	Numbe	er	track 1		and/or St	ation(s)	Stadium-Arm	ory Station	(D08)	Stadiu	um-Arm	ory Statio	on (D08)
Vahialaa	Head	d Car Nu	mber	١	Number o	of Cars	Envio		NI (A						
Vehicles		N/A			N/A	`	Equip	ment	N/A						
Description										Number	of Defect	s			0

Inspector in Charge - Signature	DAM ANTHONY GIOVANDO	Digitally signed by ADAM ANTHONY GIOVANDO DN: c=U5, o=U.5. Government, ou=FRA FRAFtWor cn=ADAM ANTHONY GIOVANDO Date: 2017.08.15 09:15:47 -05'00'	Date thTX, ou=DOT FRAFtWorthTX,
Inspector in Charge – Name	Inspection Team		
Adam Giovando	Alexander Nepa		



	TRST unit	6111 condu	ucted a jo	ob safet	ty brief	ing at New (Carrollton he	eadquarters.	Recomm	nended Fi	nding?			No
		• •				TA Roadway	Worker's P	rotection		al Action F				No
		to exception	ns were		o the jo	b salety bil	ening.		Recomm	ended Re	einspec	tion?		No
Remedial Action	N/A													
Inspection Activity #	2 Ins	pection Sub	oject	AMF Ob	oservat	ion			Activity Co	ode	TR	К	RC	OBS
lob Briefing Employee Name/Title	Advance 4 #6145 & 6	ST Unit # 61 Watchman ⁻ 5042 T Unit #641	TRST Uni	it		mpanied ector?	Yes	Out Brief Conducted	Yes	Time	0700 1500		Outside Shift	No
Related Reports	Safety Dir	ective 15-1			Relat	ted CAPS / I	Findings	CAP R-2-18-A	and R-2-19	-A				
Related Rules, SOPs, Standards, or Other	Ref TRST-100	0 rev. 6		Rule or S P.O. R-17			Standard		Other / 1	Fitle .		Chec	klist Refere	ence
	Main Track	Yard	Statio	in C	CC	RTA Facility	FTA Office		At-grad	e Tu	nnel	Elev	vated	N/A
Inspection Location	х		х					Track Type			Х			
Line(s)	D-Line	Track Numb		track 1	L	Chain Mar and/or Sta		Stadium-Arm	From ory Station	(D08)	Stadio	um-Arr	To nory Statio	on (D08)
Vehicles		ar Number N/A	N	umber o N/A		Equip	ment	N/A						
								Flagger (AMF)	Number	of Defect	s			6
		operator co exceptions	•					adium-Armory	Recomm	nended Fi	nding?			Yes
	A total of	18 WMATA	trains w	vere obs				ion. Of the 18	Remedia	al Action F	-	ed?		Yes



Agency/Department Information

Federal Transit Administration

Inspection Date	YYYY	MM	DD	Report Number	20170714-WN	ΛΛΤΛ Λ	6.2	
inspection Date	2017	07	14	Report Number	201/0/14-001		U-2	
Rail Agency Name	Washington Authority	Metropolitan	Area Transit	Rail Agency Department	TRST	Sub- Dep	artment	ΤΚΙΝ
	I	Name		Email	Office Phone	е	N	1obile Phone
Rail Agency Department								
Contact Information								
Inspection Location	F-Line, tracks	s 1 and 2, Plat	form Inspection	between Branch Avenu	ue (F11) and Waterfror	nt-SEU (F04)	

Inspection Summary

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

Activity Summaries

Inspection Activity #	1 I	nspection Sub	ject	Platform Track Inspection					Activity Co	ode	TR	К	WI	PI
Job Briefing Employee Name/Title	N/A				Accor Inspe	npanied ctor?	N/A	Out Brief Conducted	N/A	Time	100 140		Outside Shift	No
Related Reports	N/A				Relate	ed CAPS / I	indings	N/A						
	Ref			Rule or S	OP		Standard		Other / T	ītle		Che	cklist Refe	rence
Related Rules, SOPs, Standards, or Other	MSRPH													
standards, or other	TRST 10	000												
lucus sticus Location	Main Track	Yard	Stati	on C	осс	RTA Facility	FTA Office	Tuesda Taura	At-grad	e Tur	nnel	Ele	evated	N/A
Inspection Location			х					Track Type	x		x			
line(a)	E Line	Track		tracks :	1	Chain Ma	rker		From				То	
Line(s)	F-Line	Numb	er	and 2		and/or St	ation(s)	Branch Ave (F	-11)		Wate	rfront	-SEU (F04)	
	Head	Car Number	Ν	lumber o	of Cars									
Vehicles		N/A		N/A	N/A Equipment N/A									
Description									Number	of Defect	s			5

Inspector in Charge - Signature		Digitally signed by ADAM ANTHONY GIOVANDO DN: c=US, o=US. Government, ou=FRA FRAFtWorthTX, 4 ANTHONY GIOVANDO Date: 2017.07.19 14:25:47 -05'00'	Date ou=DOT FRAFtWorthTX, cn=ADAM
Inspector in Charge - Name	Inspection Team		
Adam Giovando	Lee Emard		



	An FWSO team member performed a platform inspection of the track bed, cover	Recommended Finding?	Yes
	boards, Emergency Trip Station (ETS) lights, Train Approach Warning (TAW) lights,	Remedial Action Required?	Yes
	 drainage and general conditions. The following non-color-coded defects were observed: TRST 1000 Manual, 13.5.2: Track 1, at Suitland Station (F10), one third rail anchor arm was broken. TRST 1000 Manual, 10.14.1: Track 2, at Naylor Road Station (F09), an ETS light was out at ETS box F-121. TRST 1000 Manual, 10.14.1: Track 1, at Naylor Road Station (F09), an ETS light was out at ETS box F-123. TRST 1000 Manual, 10.14.1: Track 2, at Congress Heights Station (F07), an ETS light was out at ETS box F-88. TRST 1000 Manual, 10.14.1: Track 1, at Congress Heights Station (F07), an ETS light was out at ETS box F-88. TRST 1000 Manual, 10.14.1: Track 1, at Congress Heights Station (F07), an ETS light was out at ETS box F-87. Other Notable Observations: Track 1, at Branch Ave Station (F11): One of the approach warning lights on the platform were not working. Track 2, at Branch Ave Station (F11): Five of the approach warning lights on the platform were not working. Track 2, at Suitland Station (F10): Twenty-three of the approach warning lights on the platform were not working. Track 2, at Suitland Station (F09): Fifteen of the approach warning lights on the platform were not working. Track 2, at Southern Ave Station (F09): Fifteen of the approach warning lights on the platform were not working. Track 2, at Southern Ave Station (F08): Forty-eight of the approach warning lights on the platform were not working. Track 2, at Southern Ave Station (F08): Forty-eight of the approach warning lights on the platform were not working. Track 2, at Congress Heights Station (F07): One of the approach warning lights on the platform were not working. Track 1, at Congress Heights Station (F07): One of the approach warning lights on the platform was not working. Track 1, at Anacostia Station (F06): One of the approach warning lights on the platform was not workin	Recommended Reinspection?	Yes
Remedial Action	 To achieve compliance with WMATA's requirements: WMATA must replace the broken third rail anchor at Suitland Station (F1 WMATA must repair the ETS light at Naylor Road Station (F09) on track 2 WMATA must repair the ETS light at Naylor Road Station (F09) on track 1 WMATA must repair the ETS light at Congress Heights Station (F07) on tr WMATA must repair the ETS light at Congress Heights Station (F07) on tr 	2, box F-121. 1, box F-123. 1ack 2, box F-88.	



Agency/Department Information

Federal Transit Administration

Inspection Date	YYYY	MM	DD	Report Number	20170716-WMATA-AG-1					
inspection Date	2017	07	16	Report Number						
Rail Agency Name	Washington Authority	Metropolitan	Area Transit	Rail Agency Department	TRST Sub- Department TKIN			ΤΚΙΝ		
	ı I	Name		Email	Office Phone	e	N	1obile Phone		
_										
Rail Agency Department Contact Information										
Contact mormation										
Inspection Location	A- and B-Line	es, tracks 1 an	d 2 between Me	etro Center Station (A01	1) and Gallery Place-Ch	inatown St	ation (B01)			

Inspection Summary

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

Activity Summaries

Inspection Activity #	1	Inspec	tion Sub	ject	Roadwa	ıy Work	er Protecti	on – Job Safe	ety Briefing	Activity Co	ode	TR	K	JSB	OBS
Job Briefing Employee Name/Title	Advar	nce Wat	Jnit 6028 tch Man ⁻ TRST Unit	TST U		Inspector? Conducted		No	Time	060 140		Outside Shift	No		
Related Reports	N/A					Related CAPS / Findings N/A									
	Ref				Rule or S	OP Standard			Other / T		Checklist Reference				
Related Rules, SOPs, Standards, or Other	RWPN	N													
Standards, or Other															
	Maiı Trac		Yard	Stat	ion C	осс	RTA Facility	FTA Office		At-grad	e Tui	nnel	Ele	vated	N/A
Inspection Location	х			х	[Track Type			х			
		1	Track		tracks	1	Chain Ma	rker		From				То	
Line(s)	B-Line	5	Numbe	er	and 2		and/or St	ation(s)	Metro Center	r (A01)		Galle	ry Plac	e-Chinato	wn (B01)
	Hea	d Car N	umber		Number c	of Cars									
Vehicles		N/A			N/A		Equip	ment	N/A						
	-		, ,	-	•	'		8 at Gallery F		Number	of Defect	ts			0
Description	China	town St	tation. Th	ie brie	efing was t	thoroug	gh and fully	compliant w	vith WMATA's	Recomm	ended Fi	nding?			No

Inspector in Charge - Signature	DAM ANTHONY GIOVANDO	Digitally signed by ADAM ANTHONY GIOVANDO DN: c=US, o=U.S. Government, ou=FRA FRAFtWorthTX, ou GIOVANDO Date: 2017.07.19 14:24:01 -05'00'	Date =DOT FRAFtWorthTX, cn=ADAM ANTHONY
Inspector in Charge – Name Adam A. Giovando	Inspection Team Lee Emard		
Adam A. Giovando			



	Roadway Worker Protection Manual (RWPM) requirements. It included WMATA	Remedial Action Required?	No
	level-1 ID check, type of protection, Train Approach Warning (TAW), potential hazards, hot spots, hospital locations, and the safety rule of the day.	Recommended Reinspection?	No
	No exceptions were taken with the job safety briefing.		
Remedial Action	N/A		

Inspection Activity #	2	Inspection Sub	ject	Track In	spectio	on Observat	tion		Activity Co	ode	TR	K	WI	OBS
Job Briefing Employee Name/Title	RWIC,	TRST Unit #602	28		Accoi Inspe	mpanied ector?	Yes	Out Brief Conducted	No	Time	06 14		Outside Shift	No
Related Reports	N/A				Relat	ed CAPS /	Findings	N/A						
	Ref			Rule or S	SOP Standard			Other / Title Che				ecklist Reference		
Related Rules, SOPs, Standards, or Other	TRST-1	000 rev. 6												
Inspection Location	Main Track	Vard	Stati	on C	осс	RTA Facility	FTA Office	Track Type	At-grade	e Tu	nnel	Elev	vated	N/A
	х		Х								Х			
Line(s)	B-Line	Track	Track tracks 1 Chain Marker From To								То			
Line(s)	D-LINE	Numb	Number and 2 and/or Station(s) Metro Center								Galle	ry Plac	e (B01)	
Vehicles	Head	Car Number	٩	Number of Cars Equipment N/A										
venicies		N/A		N/A		Equip	mem	NA						
								ection team on	Number	of Defect	s			3
	tracks	1 and 2 of the	B Line t	oetween	Metro Center and Gallery Place stations.				Recommended Finding?					Yes
	The fo	llowing non-co	lor-coc	ded defeo	ts wer	e observed	l:		Remedial Action Require			ed?		Yes
Description	 TRST 1000 Manual, 13.5.2: Broken third rail anchor B1 007+00. TRST 1000 Manual, 10.17.4.1: Three pieces of relay rail were observed; two between the running rail and one between the catwalk 										Yes			
Remedial Action	To ach • •	WMATA n	nust rep nust rep	place the move the	third ra relay r			31 007+00.						



Form FTA-IR-1

United States Department of Transportation Federal Transit Administration

Agency/Department Information

Inspection Date	YYYY	MM	DD	Report Number	20170717-WMATA-AG-1					
Inspection Date	2017	07	17	Report Number						
Rail Agency Name	Washington Authority	Metropolitan	Area Transit	Rail Agency Department	TRST	artment	TKIN			
	I	Name		Email	Office Phon	e	Mobile Phone			
Rail Agency Department Contact Information										
Inspection Location	F-Line Track 1 Suitland (F10) to Branch Ave. (F11)									

Inspection Summary

Inspection Activity #	1	2	3	4	5	6
Activity Code	TRK-JSB-OBS	TRK-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 li	nspection Sub	ject	Roadwa	ıy Work	er Protecti	on – Job Safe	ety Briefing	Activity Co	ode	TR	К	JSB	OBS
Job Briefing Employee Name/Title	Advance 6209	RST Unit # 606 e Watchman T RST Unit # 622	RST Ur	iit #		mpanied ector?	Yes	Out Brief Conducted	Yes	Time	1000 1500		Outside Shift	No
Related Reports	N/A				Relat	ed CAPS / I	Findings N/A							
	Ref			Rule or S	OP		Standard		Other / T	ītle		Checklist Reference		
Related Rules, SOPs, Standards, or Other	RWPM													
Standards, or other														
In a section for a section	Main Track	Yard	Statio	on C	осс	RTA Facility	FTA Office	Treads Treads	At-grad	e Tui	nnel	Ele	vated	N/A
Inspection Location	х		Х					Track Type	x		х		х	
1:	E Line	Track		ture als 1		Chain Ma	rker		From		1		То	
Line(s)	F-Line	Numbe	er	track 1		and/or Sta	ation(s)	Suitland Stati	on (F10)		Branc	h Ave	nue (F11)	
	Head	Car Number	N	lumber c	of Cars									
Vehicles		N/A		N/A	Equipment N/			N/A						
Description									Number	of Defect	s			0

Inspector in Charge - Signature	ADAM ANTHONY GIOVANDO	Digitally signed by ADAM ANTHONY GIOVANDO DN: c=US, o=U.S. Government, ou=FRA FRAFtWorthT ANTHONY GIOVANDO Date: 2017.07.19 14:40:08 -05'00'	Date X, ou=DOT FRAFtWorthTX, cn=ADAM
Inspector in Charge – Name	Inspection Team		
Adam Giovando	Alexander Nepa		



	prior to entering the roadway. The briefing covered the type of on track		
nr	protection (Train Approach Warning), the working limits, where to clear, known	Remedial Action Required?	No
ha ar	nazards and hotspots, safety rule of the day, the location of the nearest hospital, and a check of personal protective equipment and roadway worker protection ID.	Recommended Reinspection?	No
Th	The FWSO Inspector took no exceptions to the job safety briefing.		
Remedial Action N/	I/A		

Inspection Activity #	2	Insp	ection Subj	ect	Trac	k Observa	tion			Activity C	ode	TR	ĸĸ	WI	OBS
Job Briefing Employee Name/Title	Advai #614	nce W 5 and a	「Unit # 611 'atchman T #6042 Unit #6419	RST U	Jnits		mpanied ector?	Yes	Out Brief Conducted	Yes	Time	0700 1500		Outside Shift	No
Related Reports		,	ctive 15-1 WMATA-TG	iB-1		Rela	ted CAPS /	Findings	CAP: R-2-18-/ Remedial Act	,	5, 477, 4	79, 480	, 481, 4	182	
	Ref				Rule o	or SOP		Standard		Other / 1	Гitle		Chec	klist Refer	ence
Related Rules, SOPs,	TRST-	1000	rev. 6		P.O. T	Г-16-07 an	d R-17-03								
Standards, or Other	RWP	M													
Inspection Location	Mai Trac		Yard	Stat	ion	OCC	RTA Facility	FTA Office	Track Type	At-grad	e Tu	nnel	Ele	vated	N/A
	x								fruek type	x		х		x	
Line(s)	F-Line	<u> </u>	Track		trac	-k 1	Chain Ma			From				То	
2		-	Numbe	r	liac	.n ±	and/or S	tation(s)	Suitland Stati	ion (F10)		Bran	ch Ave	nue (F11)	
Vehicles	Head Car Number of Cars Equipment N/A														
	FW/SC	N/.		ved V		N/A	es and cor	tractors ner	orming a track	Number	of Defec	t a			4
								10) and Brar	-		nended Fi				Yes
	· · ·	(F11). In addition, FWSO inspected track conditions in the same area and followed up on previously issued remedial actions.									al Action				Yes
Description	The f	• • • edial a and R ollowi	corrugation Condition. TRST 1000 signs of stru- noted. (See ing non-col Permanent undetermin posted trac could not b operator fa This inciden the Rail Op Permanent number 61 sounding th cotions for t -2-19-A ing remedia	n/spa 7.9.2 uctur figur or-co c Orde med s k spe e obt illed t illed t tht wa eratio c Orde to Ta appendent the spa e obt illed t the spa e obt illed the spa e ob	lling cc .5. (f): al failu re 1). Y oded da er T-16 peed p eed. Du tained. so cont so repoi ons Coi er R-17 oproach ainline defect ions w	At CM 45 re. No gau 'ellow Ma efects wen -07: At F1 assed the re to the e The last of inuously s rted by th ntrol Cent 7-03: At F1 hed the w horn, as r ts are add	as observe 6+50, three ige or track intenance e observed 467+00, th work grou xcessive sp car number ound the r e roadway er (ROCC). -519+00, a ork group v equired. ressed in V	x geometry c Condition. d: rack one, a tr p at more the was 6094. A nain line hori worker in ch t 1212 hours without conti VMATA's app olete:	aintenance a row showed ondition was ain at an an half the d car number dditionally, the n, as required. arge (RWIC) to , lead car nuously oroach to R-2-	Recomm	ended R	einspec	ction?		Yes
			474: At F1 4 has been re			0	0	icy Trip Statio	on (ETS) box						



	• 475: At F1 496+00, the light at the ETS box has been repaired and is in working order.	
	• 477: At F1 540+20, the light at the ETS box has been repaired and is in working order.	
	• 479: At ETS Box 159, the latch on the cabinet door has been repaired.	
	 480: At F1 512+00, the light at the ETS box has been repaired and is in working order. 	
	 481: At F1 520+10, the light at the ETS box has been repaired and is in working order. 	
	• 482: At F1 528+00, the light at the ETS box has been repaired and is in working order.	
	Other Notable Observations:	
	 Between J1 490+00 and J1 494+00, lateral rail movement was noted of more than one inch. (See figure 2.) It could not be determined if the Pandrol clip marks on the rail were recent, and a direct result of the 	
	high ambient temperature. At the areas of concern, there was no evidence of irregular track geometry and did not show a nervous (wavy) rail condition.	
	To achieve compliance with WMATA's requirements:	
Remedial Action		
Action	 WMATA must replace the defective elastic fasteners at F1 456+50. WMATA must replace the spalled/corrugated rail between F1 456+00 an 	

Photos:



Figure 1: Defective elastic fastener





Figure 2: Pandrol mark on rail indicating lateral movement



Form FTA-IR-1

Federal Transit Administration Agency/Department Information

Inspection Data	YYYY	MM	DD	Donout Number		1 A T A \A			
Inspection Date	2017	07	17	Report Number	20170717-WMATA-WP-1				
Rail Agency Name	Washington Authority	Metropolitan	Area Transit	Rail Agency Department	RTRA Sub- Department ROCC				
	1	Name		Email	Office Phone	e	N	Nobile Phone	
Rail Agency Department Contact Information									
Inspection Location	Rail Operatic 3500 Pennsy Landover, M		nter (ROCC)						

Inspection Summary

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

Activity Summaries

Inspection Activity #	1	Inspec	tion Sub	ject	ROCC R	ules Co	ompliance O	bservation		Activity Co	de	ROO	CC	RC	OBS
Job Briefing Employee Name/Title	N/A						ompanied ector?	N/A	Out Brief Conducted	Yes	Time	2000 0030		Outside Shift	Yes
Related Reports			gement lı eport, Ju	-		Rela	ted CAPS /	Findings	Required Act	ctions: R-1-6-a, R-1-6-b, R-1-9-a					
	Ref				Rule or S	OP		Standard	itle	e Checklist Re			rence		
Related Rules, SOPs, Standards, or Other	MSRF	SRPH Operation Rules 1. Perman No. T-16				adio Us on): 59 – 1.8 ent Orc -10, No	Sage and 38 Jers: 5. R-17-								
	Mai Trac		Vard Station C				RTA Facility	FTA Office	Office		e Tui	Tunnel		vated	N/A
Inspection Location						х			Track Type						x
Line(s)	N/A		Track N/A				Chain Ma	rker		From To					
Line(s)	IN/A		Numbe	er	IN/A		and/or St	ation(s)	N/A			N/A			

Inspector in Charge - Signature				Date
	V	WINSLOW L. POWELL	Digitally signed by WINSLOW L. POWELL DN: c=US, o=U.S. Government, ou=FTAHQ, ou=DOT Date: 2017.07.21 12:19:30 -04'00'	Headquarters, cn=WINSLOW L. POWELL
Inspector in Charge – Name	Inspection Team			
Winslow Powell	Tamara Powell			



N/A N/A An FVA An V/A An Proceeding a Builds Compliance observation at the Ball Operations Control Center (ROCC). The inspector observed ratio activities on Operations (Opp) 1 Console (or Red Line), for compliance with the Metroral Safety Rules and Procedures Handbook (MSRPH), as well as permanent orders and rules that govern roadway access activities and radio procedures. The inspector also observed to the ROCC proceedures and noted the Rall Traffic Controller's (RTCS) overall performance and response to incidents that took place until after completion of service and during preparation for overnight maintenance activities. No Radio Procedures and Protocols: The RTC achowed egid most radio rogatization (ICAO) standards for radio transmission with "over" and "out." There were a few instances where the controller did not proceiv/ cose the communication loop. The RTCS condinated between the field portable track units, train operators, station managers, as well as each other, to monitor revenue service. The RTCS condinated between the field portable track units, train operators, station managers, as well as each other, to monitor revenue service. The RTCS marked each unit or operator achnowledged each operating instruction, clearance, and transmission with 100 percent word-for- word real back. The RTCS marke clear and appropriate radio broadcasts that informed personnel of all operational annoalies and etsbilled roadway ("Maintenance Access Form") with recorded all cal-in/cal-IOf times, the level of protection, and other required information to manage and monitor access and coordination. The RTCS marke clear and appropriate radio broadcasts that informed personnel of all operational annoalies and etsbilled roadway ("Maintenance Access Form") with recorded al		Head Car Number	Number of Cars				
Description Operations Control Center (ROCC). The inspector observed radio activities on Operations (Ops) 1. Console (or Red Uning, for compliance with the Metrorol and rules that govern madway access and noted the Rall Traffic Controller's (RTC's) overall performance and response to incidents that took place-until after completion of service and during preparation for overnight maintenance activities. Recommended Finding? No Redio Procedures and Protocols: • The FWSO inspector observed the RTCs during each radio broadcast. The RTC achowledged mountainto for overnight maintenance activities. • The FWSO inspector observed the RTCs during each radio broadcast. The RTC achowledged mountainto incompletion of service and during preparation for overnight No • The FWSO inspector observed the RTCs during each radio broadcast. The RTC achowledged mountainto incorport. • The FWSO inspector observed the RTCs during each radio broadcast. The RTCs concellated between the field portable track units, train operators, station managers, as well as each other, to monitor revenue service. • The RTCs engloged international Civil Aviation Organization (ICAO) standards for radio transmissions and phone calls with personnel involving power requests and alphanumeric station identification. • The RTCs made clear and appropriate radio broadcasts that informed personnel of all operational anomales and established roadway access protection in place that may potentially impact operations, roadway access requests, and inspections. • Recommended Reinspection? No Description Outmentation and Checklists: establishment or ders; including time and location of access, the establishment or ders; including time and location of access, the establishment or ders; including time and location of acce	Vehicles	N/A	N/A	Equipment	N/A		
Description Operations (Ops) 1 Console (or Red Line), for compliance with the Metrorall Safety Rules and Proceedures Handbook (MSRPH), as well as permanent or description (MSRP), as well as and radio procedures. The inspector also observed other ROCC procedures and noted the Rail Traffic Controller's (RTC's) overall performance and response to indidents that took place until after completion of service and during preparation for overnight maintenance activities. Radio Procedures and Protocols: No 0 The FWSO Inspector observed the RTCs during each radio broadcast. The RTC acknowledged most radio requests and ended each transmission with "over" and "out." There were a few instances where the controller did not properly close the communication loop. The RTC acknowledged most radio requests and ended each transmission with "over" and "out." There were a few instances where the controller did not properly close the communication loop. The RTCs encloyed international Civil Aviation Organization (ICAO) standards for radio transmission and phone cells with personnel involving power requests and aphonumeric station identification. The RTCs ensured each unit or operator acknowledged each operating instruction, clearance, and transmission with 100 percent word-for- word read back. Recommended Reinspection? No 0 The FWSO Inspector reviewed all required checklists regarding roadway access and foul time. The RTCs ensured each unit propertion indice that may potentially impact operations, roadway access form? with recorded all call-on/call-off times, the level of protection, and and prophica wits, human form						Number of Defects	1
Description Remedial Action Required? No Description Occumentation and Procedures Handbook (MSRPH), as well as permanent orders inspector also observed other ROCC procedures and noted the Rail Traffic Controller's (RTC's) overall performance and response to incidents that took place until after completion of service and during preparation for overnight Remedial Action Required? No Radio Procedures and Protocols: • The FWSO Inspector observed the RTCs during each radio broadcast. To RRT Canowledged most radio requests and ended each transmission with "over" and "out." There were a few instances where the controller did not properly close the communication loop. • The FWSO inspector observed the RTCs during each radio broadcast. To RRT Cas coordinated between the field portable track units, train operators, station managers, as well as each other, to monitor revenue service. • The RTCs employed International Civil Aviation Organization (ICAO) standards for radio transmissions and phone calls with personnel involving power requests and alphonumeric station identification. • The RTCs made clear and appropriate radio broadcasts that informed personnel of all operational anomalies and established roadway access requests, and inspections. • The RWSD inspector reviewed all required checklists regarding roadway access and foot times, the level of protection, nad other required Information to manage and monitor access from? With recorded all call-on/call-off times, the level of protection, and and protection escience and promative access, the level of protection, and and protection equest. • The RWSD inspector reviewed all required checklists r						Recommended Finding?	No
Description The FWSO Inspector reviewed all required checklists regarding roadway access and point response to incident shale informed parameter activities. Description The FWSO Inspector reviewed all required checklists regarding roadway access and point reviewed all resonand information to manage and monitor access from? with recorded all call-on/call-off times, read-way access are down and road response to incident or manage and monitor access from? With recorded all call-on/call-off times, the level of portection, and and promiter to its, human form and blocked track, and trains restricted and/or affected by each request.						Remedial Action Required?	No
 ("ROCC Daily Activity Log"), acknowledging defects and anomalies on the line. The RTCs also verbally exchanged operating conditions and anomalies upon each transfer of duties. Roadway Access: The FWSO Inspector observed the RTC radio performance and other required 	Description	Operations Control Cel Operations (Ops) 1 Con Safety Rules and Proce and rules that govern r inspector also observe Controller's (RTC's) ow place until after compl maintenance activities Radio Procedures and o The FWSO I The RTC acd transmissio the controll o The RTCs or operators, s revenue set o The RTCs er standards fu involving pc o The RTCs er instruction, word read H o The RTCs er caccess prot roadway ac Documentation and C o The FWSO I roadway ac o The FWSO I roadway ac o The RTCs m ("Maintena the level of monitor acc o Foul time cl rules and pr establishme blocked tra o The FWSO I at the Ops Advanced I beginning co ("ROCC Dai the line. o The RTCs al upon each the	nter (ROCC). The inspector hasole (or Red Line), for co- dures Handbook (MSRPH- roadway access activities d other ROCC procedures erall performance and re- etion of service and durin Protocols: nspector observed the R chowledged most radio ru n with "over" and "out." er did not properly close bordinated between the f station managers, as well vice. mployed International Civ- or radio transmissions an ower requests and alphar nsured each unit or opera- clearance, and transmiss back. ade clear and appropriat of all operational anomali ection in place that may p cess requests, and inspect hecklists: nspector reviewed all red cess and foul time. aintained a written log o <i>nce Access Form")</i> with r protection, and other re- tess and coordination. hecklists were properly fi ermanent orders; includii ent of red signal and prof ck, and trains restricted a nspector observed two t L Console. Relieving RTCs nformation Management of their shift, and initialed <i>ly Activity Log")</i> , acknowl so verbally exchanged op transfer of duties.	or observed radio ac ompliance with the N (1), as well as permar and radio procedures and noted the Rail sponse to incidents ing preparation for or TCs during each radii equests and ended of There were a few in the communication field portable track to as each other, to m vil Aviation Organiza d phone calls with p numeric station iden ator acknowledged of sion with 100 percer e radio broadcasts t es and established r botentially impact o ctions. quired checklists reg f all personnel on th ecorded all call-on/or quired information t lled out in accordan ng time and location ibit exits, human fo ind/or affected by e ransfer shifts for bot electronically signe the paper and elect edging defects and a perating conditions a	tivities on Metrorail hent orders es. The Traffic that took vernight io broadcast. each istances where loop. units, train conitor tion (ICAO) bersonnel tification. each operating t word-for- that informed coadway perations, arding e roadway call-off times, to manage and ack request. th controllers d onto en at the tronic logbook anomalies on and anomalies	Recommended Finding? Remedial Action Required?	No No



	 Personnel acknowledged location and presence of AMFs required for
	each access request.
	 The RTCs established and broadcasted all red signals and "prohibit
	exits," as well as human form and blue block track, via the AIM system
	as required by each level of protection.
	• The RTC required 100 percent and word-for-word repeat backs for all
	requests, ensuring the track units were in receipt of and repeated
	back full instructions and clearance.
	• The RTCs properly broadcast all on/off times for all access requests.
	The following non-color-coded defect was observed:
	MSRPH Rule 1.79: Field personnel continue to violate radio rules,
	regarding "over" and "out" requirements.
	Remedial Action for this defect is addressed in WMATA's approach to CAP R-1-
	6-A
Remedial Action	N/A



Form FTA-IR-1

Agency/Department Information

Federal Transit Administration

Inspection Date	YYYY	MM	DD	Report Number		1 A T A A	C 1			
inspection Date	2017	07	18	Report Number	20170718-WMATA-AG-1					
Rail Agency Name	Washington Authority	Metropolitan	Area Transit	Rail Agency Department	TRST	Sub- Dep	artment	TKIN		
	1	Name		Email	Office Phone	e	N	1obile Phone		
Rail Agency Department Contact Information										
Inspection Location	Foggy Bottor	n (CO4) and Pe	entagon City (C	08) Interlockings						

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	13				
Recommended Finding	No	Yes				
Remedial Action Required ¹	No	Yes				
Recommended Reinspection	No	Yes				

Activity Summaries

Inspection Activity #	1	Inspec	tion Subj	ect	Roadwa	y Work	er Protecti	on – Job Safe	ety Briefing	Activity Co	de	TR	К	JSB	OBS	
Job Briefing Employee Name/Title	TRST	Unit #6:	168			Accor Inspe	mpanied ctor?	No	Out Brief Conducted	No	Time	100 150		Outside Shift	No	
Related Reports	N/A					Relat	ed CAPS /	Findings	N/A							
	Ref				Rule or S	ОР		Standard		Other / T	Other / Title			Checklist Reference		
Related Rules, SOPs, Standards, or Other	RWP	N														
standards, or other																
	Mai Trac		Yard	Stati	on C	осс	RTA Facility	FTA Office	T	At-grade	e Tui	nnel	Elev	ated	N/A	
Inspection Location	х								Track Type	х			>	(
	<u> </u>	1	Track		track 1	ck 1 Chain Marker				From				То		
Line(s)	C-Line	5	Numbe	r	and2		and/or St	ation(s)	Pentagon City	ty (C08) Foggy Bottom- GWU (C04)				(C04)		
	Неа	d Car N	umber	١	Number o	f Cars	_									
Vehicles		N/A			N/A		Equip	ment	N/A							
Description	-					'		0	n City Station.	Number	of Defect	s			0	
Description	The b	riefing v	was thoro	ugh a	nd fully c	omplia	nt with WN	1ATA's Road	way Worker's	Recomm	ended Fi	nding?			No	

Inspector in Charge - Signature	ADAM ANTHONY GIOVANDO	Digitally signed by ADAM ANTHONY GIOVANDO DN: c=US, o=U.S. Government, ou=FRA FRAFtWort ANTHONY GIOVANDO Date: 2017.08.01 15:13:49 -05'00'	
Inspector in Charge	Inspection Team		
Adam Giovando	Lee Emard, Adam Giovando and Al Nepa		



	type hosp	of pro ital lo		ain appro d safety r	ach war ule of tl	rning (he day	(TAW), pote /·	ential hazaro	el-1 ID check, ls, hot spots,		dial Action				No No
Remedial Action	N/A														
Inspection Activity #	2	Ins	pection Sub	j ect S	witch In	nspect	ion			Activity	Code	TR	RK	WI	PI
Job Briefing Employee Name/Title	RWIG	C, TRS	5T Unit #616	58		Acco Inspe	mpanied ector	Yes	Out Brief Conducted	No	Time	100 150		Outside Shift	Nc
Related Reports						Relat	ted CAPS /	Findings							
Related Rules, SOPs,	Ref			Ru	le or SC	OP		Standard		Other	/ Title		Check	list Refer	ence
Standards, or Other	TRST	-1000), rev. 6												
	Ma Tra		Yard	Station	00	сс	RTA Facility	FTA Office		At-gr	ade Tu	innel	Eleva	ated	N/A
Inspection Location	x								 Track Type 			х			
Line(s)	C-Lin	e	Track		track 1 a	and	Chain Ma	rker		From				То	
2	C-LIII		Numb	er	2		and/or St	ation(s)	Pentagon Cit	r (C08) Foggy Botto			y Bottor	n- GWU (C04)
Vehicles	Hea		r Number I/A	Nu	mber of N/A	f Cars	Equip	N/A							
	FWS		-	formed a	,	ie swit	ch inspectio	on of all swi	tches in the	Numb	er of Defec	ts			12
			0	gon City	(C08) ar	nd Fog	gy Bottom	(CO4) on tra	icks one and		nmended F				Yes
	two	of the	e C-Line.								dial Action				Yes
Description	The f	• follow • •	more than TRST 1000 excessive t more than TRST 1000 excessive t more than ving non-co TRST 1000 290+00, sv TRST 1000 missing fro TRST 1000 bolts on th TRST 1000 fasteners i	15 MPH: Manual, tread wea 15 mph. Manual, tread wea 15 mph. Ior-codeo Manual, og bolt an Manual, ng. Manual, ng. Manual, ng.	Red co 9.22.3: ar of 7/1 Red co 9.22.3: ar of 7/1 Red co d defect 13.5.7: at CO8. 9.27.3: d one lo 10.15: 9:27.3: ounting 9.27.3: five bad	nditica : Frog 16 incl nditio : Frog 16 incl nditio : Frog 0056 f : Tunne : The F ; plate : At CC i in 10	n. at CO8, swith n requiring at CO4, swith n requiring n. e observed over on end at CO8, swith rog bolt. el light at CO WSO Inspe located at 04, switch 11 4 inches.	operating sp cch 1A, on tr operating sp : approach c cch 1A, track 08, switch 1/ ctor observe C04, switch 18, track 2, th	rack 1 showed oeed of not rack 1 showed oeed of not on track 2, CM x 1, had one A, track 1, was ed five loose 3B, on track 2.	Recon	nmended R	einspec	ction?		Yes
		•	missing co TRST 1000 65+00, swi	tter pin i Manual, itch 3A. Manual,	n bolt a , 13.5.7: , 9.27.2 1	nd roc : No co	l was loose. over on end	approach c	on track 1, CM 04, switch 3A,						



reuerar Transit P	Administration	
	• TRST 1000 Manual, 9.27.3. At C04, switch 1A, track 1, three bad	
	fasteners in a row; five out of six were bad in 120 inches.	
	Other Notable Observations:	
	Entire crossover at Foggy Bottom on track 1 and 2 exhibited arcing from the third	
	rail and running rail. This indicated poor surface conditions. Burns on running rail frogs and third rail are apparent. It is recommended that measurements need to be taken under load to analyze defects.	
	To achieve compliance with WMATA's requirements:	
	 WMATA must repair the tread on the frog point and bring it back within t WMATA must repair the tread on the frog point and bring it back within t WMATA must repair the tread on the frog point and bring it back within t WMATA must repair the tread on the frog point and bring it back within t WMATA must repair the tread on the frog point and bring it back within t WMATA must repair the tread on the frog point and bring it back within t 	olerance at C08, switch 3A, at C1 289+00. olerance at C08, switch 1A, at C1 289+00. olerance at C04, switch 1A, at C1 66+00.
Remedial Action	• WMATA must replace and tighten the frog bolts at C08, switch 1A, at C1	
	 WMATA must repair tunnel work light at C08, switch 1A, at C1 289+00. 	c2 cc . 00
	 WMATA must tighten five frog mounting plate bolts at C04, switch 3B, at WMATA must repair five fasteners at C04, switch 1B, at C2 66+00. 	C2 66+00.
	 WMATA must replace cotter pin and tighten bolts on #4 switch rod at CO- 	4, switch 1B, at C2 66+00.
	• WMATA must replace cover board on end approach at C04, switch 3A, at	C1 66+00.
	• WMATA must tighten bolts on #3 and #4 switch rods at C04, switch 3A, at	t C1 66+00.
	 WMATA must replace six bad fasteners at C04, switch 1A, at C1 66+00. 	



Form FTA-IR-1

Agency/Department Information

Federal Transit Administration

Inspection Date	YYYY	MM	DD	Report Number	Report Number 20170718-WMATA-WP-1					
inspection Date	2017	07	18	Report Number						
Rail Agency Name	Washington Authority	Metropolitan	Area Transit	Rail Agency Department	POWR Sub- Department CM					
	I	Name		Email	Office Phone	е	N	1obile Phone		
Rail Agency Department Contact Information										
Inspection Location	Waterfront-S	SEU (F04), AC	Switchboard Ro	om #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 Sul	oject	Waterfr	ont-SEI	J (F04) – Sa	afety Briefing	3	Activity Co	de	TF	D I	JSB	OBS
Job Briefing Employee Name/Title	WMATA Power Personnel				Accor Inspe	npanied ctor?	Yes	Out Brief Conducted	Yes	Time	1430 1730		Outside Shift	No
Related Reports	N/A				Relat	ed CAPS /	Findings	N/A						
	Ref			Rule or S	OP		Standard		Other / T	itle		Check	list Refer	ence
Related Rules, SOPs, Standards, or Other	RWPN	Λ												
Inspection Location	Mair Trac	Yard	Stati	ion C	осс	RTA Facility	FTA Office	Treak Turne	At-grade	e Tur	nnel	Eleva	ated	N/A
Inspection Location			х					Track Type						х
Line(c)	F-Line	Track		N/A		Chain Ma	rker		From				То	
Line(s)	r-Line	Numb	er	N/A		and/or St	ation(s)	N/A			N/A			
Male ale a	Hea	d Car Number		Number c	of Cars									
Vehicles		N/A		N/A		Equip	ment	N/A						
		personnel rece				0			Number	of Defect	s			0
Description		nnel. All person ction (RWP) IDs			•	. ,			Recomm	ended Fir	nding?			No

Inspector in Charge - Signature		Date
	WINSLOW L. POWELL	Digitally signed by WINSCOW L POWELL Dit: c=US. c=US. Government, ou=FAHQ, ou=DOT Hebdquarters, cn=WINSLOW L POWELL Dit: c=1017.07.21 12:14:44-0700
Inspector in Charge – Name Winslow Powell	Inspection Team Tino Sahoo	



nearest hospital and safety rule of the day. The potential safety hazards were discussed.	
The FWSO Inspector did not note any defects.	

Inspection Activity #	2	Inspe	ection Sub	ject			F04) – 13.8 kV ctive Mainten		Activity Co	ode	Т	Р	RM	OBS
Job Briefing Employee Name/Title	WMA	TA Po	wer Perso	nnel	Accomp Inspect		Yes	Out Brief Conducted	Yes	Time	143 17	-	Outside Shift	No
Related Reports	N/A				Related	I CAPS / F	indings	N/A						
	Ref				Rule or	SOP	Standard		Other / 1	ītle		Cheo	cklist Refer	ence
Related Rules, SOPs, Standards, or Other	N/A													
In a set in a la set in a	Mai Trac	-	Yard	Station	осс	RTA Facility	FTA Office	Treads Truce	At-grad	e Tu	nnel	Ele	vated	N/A
Inspection Location				х	Track Type									х
1:	E Line		Treaded					From				То		
Line(s)	F-Line		Тгаск	Number	N/A and/or Station(s) N/A						N/A			
	Неа	d Car	Number	Numb	er of Cars	_		40.011/400						
Vehicles		N//	A	1	N/A	Equ	ipment	13.8 kV (ABB	– Manufact	urer) AC :	SWITCH			
			•		•	•	onnel perform	0	Number	of Defec	ts			0
					•	, 0	ear located in a	AC cable conduits	Recomm	ended Fi	nding?			No
							nary main brea		Remedia	Action	Require	ed?		No
Description	WMA powe layer sealin the sw they w perfor The F	TA hai r persi solutic g mat vitchg vould rmed.	d in storag onnel—in on to mitig cerial that v gear, and fi land on th	e new spare conjunction ate water in would be pu nally a sealin e AC switch	 al transformer (PT) cubicles to fault and fail. the primary main and CT/PT cubicles. WMATA n with WMATA engineering—developed a three- ntrusion. This consisted of using a gel-based umped into the cable conduits, a drip tray above ing hardware (ring) around the conduits where ngear. No issues were noted with the work Recommended Reinspection? 									No
Demodial Astian	<u> </u>	emer	nt process.											
Remedial Action	N/A													



Form FTA-IR-1

Agency/Department Information

Federal Transit Administration

Inspection Date	YYYY	MM	DD	Report Number	20170718-WMATA-WP-2				
inspection Date	2017	07	18	Report Number	20170718-001	VIATA-V	VP-2		
Rail Agency Name	Washington Authority	Metropolitan	Area Transit	Rail Agency Department	TRPM Sub- Department PM				
		Name		Email	Office Phone	9	N	1obile Phone	
Rail Agency Department Contact Information									
Inspection Location	Judiciary Squ	iciary Square (B02) Tie Breaker (TB)							

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 Su	bject	Judiciar	y Square	e (B02) – S	afety Briefin	g	Activity Co	ode	TF	>	JSB	OBS
Job Briefing Employee Name/Title	WMA	WMATA Power Personnel			Accon Inspe	npanied ctor?	Yes	Out Brief Conducted	Yes	Time	1000 1400		Outside Shift	No
Related Reports	N/A	I/A				ed CAPS / I	Findings	N/A						
	Ref			Rule or S	OP		Standard		Other / T	ītle		Check	list Refer	ence
Related Rules, SOPs, Standards, or Other	RWPN	N												
Standards) of Other														
Increation I costion	Maii Trac	Yard	Stat	tion (DCC	RTA Facility	FTA Office	Treak Turne	At-grad	e Tu	nnel	Eleva	ated	N/A
Inspection Location			>	ĸ				Track Type						х
Lino(c)	B-Line	Tracl	ζ.	N/A		Chain Ma	rker		From				То	
Line(s)	D-LIIIE	Num	ber	N/A		and/or St	ation(s)	N/A			N/A			
	Hea	d Car Number		Number o	of Cars									
Vehicles		N/A		N/A	1	Equip	ment	N/A						
) personnel rec			·	•			Number	of Defect	s			0
Description		•			tive equipment (PPE) and roadway worker ecked. WMATA power personnel covered the Recommended Finding?									No

Inspector in Charge - Signature				Date
		WINSLOW L. POWELL	Digitally signed by WINSLOW L POWELL DN: c=US, o=U.S. Government, ou=FTAHQ, Date: 2017.07.27 13:09:46 -04'00'	pu=DOT Headquarters, cn=WINSLOW L. POWELL
Inspector in Charge – Name	Inspection Team			
Winslow Powell	Tino Sahoo			



	nearest hospital and safety rule of the discussed. The FWSO Inspector did not note any	e day. The potential safety hazards were y defects.		
-				
	Ju	udiciary Square (B02) – DC Switchgear		

2 1	nspection Su	bject			,	0	Activity Co	Activity Code		RIV	OBS
WMAT.	A Power Perso	onnel	Accompanied Inspector? Yes Out Brief Conducted			Out Brief Conducted	Yes	Time	1000- 1400		No
N/A			Related				·				
Ref			Rule or	SOP	Standard		Other / 1	ïtle		Checklist R	eference
PREVENTIVE MAINTENANCE INSTRUCTIONS (PMI) FOR G.E. 750 V DC MC6 BREAKER ANNUAL INSPECTION (REVISION 2; MARCH 20, 2012)											
Main Track	Yard	Station	OCC	RTA Facility	FTA Office	Track Type	At-grad	At-grade Tunnel		Elevated	N/A
		х				Пасктуре					x
Dline	Trook	Number	NI / A	Chain Ma	rker		From			То	
B-LINE	TTACK	number	N/A	and/or St	ation(s)	Tie Breaker (1	(TB) Tie Breaker (TB)				
Head	Car Number N/A				ment	750 V DC (Ge	neral Electri	c (GE) – ľ	turer) DC Sv	vitchgear	
							Number	of Defec	ts		0
							Recomm	ended Fi	nding?		No
	0						Remedia	Action	Required	d?	No
observe The FW	observed. Recommended Reinspection? No										No
N/A											
	WMAT, N/A Ref PREVEN INSTRU 750 V C ANNUA 2; MAR Main Track B-Line Head An FWS mainter DC (GE) accordi V DC M observe The FW replace	WMATA Power Person N/A Ref PREVENTIVE MAINTE INSTRUCTIONS (PMI) 750 V DC MC6 BREAT ANNUAL INSPECTION 2; MARCH 20, 2012) Main Track B-Line Track Head Car Number N/A An FWSO Inspector of maintenance on a lin DC (GE) switchgear lo according to the pub V DC MC6 Breaker An observed. The FWSO Inspector replacement process	WMATA Power Personnel N/A Ref PREVENTIVE MAINTENANCE INSTRUCTIONS (PMI) FOR G.E. 750 V DC MC6 BREAKER ANNUAL INSPECTION (REVISION 2; MARCH 20, 2012) Main Track Yard Station Track Number Head Car Number Numb N/A An FWSO Inspector observed WW maintenance on a lineup of five d DC (GE) switchgear located in the according to the published prevery V DC MC6 Breaker Annual Inspector observed. The FWSO Inspector and WMATA replacement process.	2Inspection SubjectFeeder (PM)WMATA Power PersonnelAccomplicationN/ARelatedN/ARelatedRefRule orPREVENTIVE MAINTENANCE INSTRUCTIONS (PMI) FOR G.E. 750 V DC MC6 BREAKER ANNUAL INSPECTION (REVISION 2; MARCH 20, 2012)Rule orMain TrackYardStationOCCXMain TrackYardStationOCCXB-LineTrack NumberN/AHead Car NumberNumber of CarsN/AN/AAn FWSO Inspector observed WMATA's pom maintenance on a lineup of five direct curred DC (GE) switchgear located in the tie breake according to the published preventive main V DC MC6 Breaker Annual Inspection (Revision observed.The FWSO Inspector and WMATA person replacement process.Image: State on State	2 Inspection Subject Feeder Breakers Pr (PM) WMATA Power Personnel Accompanied Inspector? N/A Related CAPS / Fin Ref Ref Rule or SOP PREVENTIVE MAINTENANCE INSTRUCTIONS (PMI) FOR G.E. 750 V DC MC6 BREAKER ANNUAL INSPECTION (REVISION 2; MARCH 20, 2012) RTA Facility Main Track Yard Station OCC Main Track Yard Station OCC B-Line Track Number N/A Chain Ma and/or St Head Car Number N/A N/A N/A An FWSO Inspector observed WMATA's power person maintenance on a lineup of five direct current (DC) fee DC (GE) switchgear located in the tie breaker house. M according to the published preventive maintenance ins V DC MC6 Breaker Annual Inspection (Revision 2, Marc observed. An ersonnel did not m replacement process.	2 Inspection Subject Feeder Breakers Preventive Marcon (PM) WMATA Power Personnel Accompanied Inspector? Yes N/A Related CAPS / Findings Ref Rule or SOP Standard PREVENTIVE MAINTENANCE INSTRUCTIONS (PMI) FOR G.E. 750 V DC MC6 BREAKER ANNUAL INSPECTION (REVISION 2; MARCH 20, 2012) Station OCC RTA Facility FTA Office Main Track Yard Station OCC RTA Facility FTA Office B-Line Track Number N/A Chain Marker and/or Station(s) Equipment Main Track N/A N/A Chain Marker and/or Station(s) Station(s) Head Car Number Number of Cars Equipment N/A N/A N/A Chain Marker and/or Station(s) Head Car Number N/A N/A Chain Marker and/or Station(s) An FWSO Inspector observed WMATA's power personnel performing maintenance on a lineup of five direct current (DC) feeder breakers DC (GE) switchgear located in the tie breaker house. Maintenance on Proventive maintenance instructions (PI V DC MC6 Breaker Annual Inspection (Revision 2, March 20, 2012. I observed. Yes The FWSO Inspector and WMATA personnel did not note any deference method set and the set and thot note any deference set. Set and the set and th	WMATA Power Personnel Accompanied Inspector? Yes Out Brief Conducted N/A Related CAPS / Findings N/A Ref Rule or SOP Standard PREVENTIVE MAINTENANCE INSTRUCTIONS (PMI) FOR G.E. 750 V DC MC6 BREAKER ANNUAL INSPECTION (REVISION 2; MARCH 20, 2012) V V Main Track Yard Station OCC RTA Facility FTA Office Track Type B-Line Track Number N/A N/A Track Type Tie Breaker (The Breake	2 Inspection Subject Feeder Breakers Preventive Maintenance (PM) Activity Color WMATA Power Personnel Accompanied inspector? Yes Out Brief Conducted Yes N/A Ref Related CAPS / Findings N/A Yes Other / T N/A Ref Rule or SOP Standard Other / T PREVENTIVE MAINTENANCE Rule or SOP Standard Other / T INSTRUCTIONS (PMI) FOR G.E. Station OCC RTA FTA ARCH 20, 2012) X Image: Station OCC RTA FTA Main Track Yard Station OCC RTA FTA At-grade B-Line Track Number N/A Chain Marker and/or Station(s) Track Type Tie Breaker (TB) Head Car Number Number of Cars Equipment 750 V DC (General Electri Tie Breaker (TB) Maintenance on a lineup of five direct current (DC) feeder breakers on the 750 V DC (General Electri Number Recomm Mol Chick Breaker Annual Inspection (Revision 2, March 20, 2012. No issues were observed. Number of Cars Recomm N/A N/A Narch 20, 2012. No issues were obser	2 Inspection Subject Feeder Breakers Preventive Maintenance (PM) Activity Code (PM) WMATA Power Personnel Accompanied inspector? Yes Out Brief Conducted Yes Time N/A Ref Related CAPS / Findings N/A Other / Title PREVENTIVE MAINTENANCE Rule or SOP Standard Other / Title Vers Other / Title PREVENTIVE MAINTENANCE Rule or SOP Standard Other / Title Vers Vers	Inspection Subject Feeder Breakers Preventive Maintenance (PM) Activity Code TP WMATA Power Personel Accompanied Inspector? Yes Out Brief Conducted Yes Time 1000-1400 N/A Related CAPS / Findings N/A Related CAPS / Findings N/A Time 1000-1400 N/A Related CAPS / Findings N/A Other / Title Vers Other / Title Vers Other / Title Vers Time 1000-1400 PREVENTIVE MAINTENANCE INSPECTION (REVISION 2; MARCH 20, 2012) RTA Station OCC RTA FTA Office At-grade Turlet V V Main Track Yard Station OCC RTA FTA Office Track Type Itelescence Itelescence	Reder Breakers Preventive Maintenance (PM) Activity Colspan="6">TP RM WMATA Power Personnel Accompanied inspector? Ves Out Brief Conducted Time 1000-100 Outsing N/A Relate CAPS / Findings N/A Time 1000-100 Outsing N/A Relate CAPS / Findings N/A Out of the polymer of the polym



Agency/Department Information

Federal Transit Administration

Inspection Date	YYYY	MM	DD	Report Number	20170719-WMATA-WP-1					
inspection Date	2017	07	19	Report Number			VL-T			
Rail Agency Name	Washington Authority	Metropolitan	Area Transit	Rail Agency Department	TRPM	Sub- Dep	artment	CBL. IN.		
	I	Name		Email	Office Phone	е	N	1obile Phone		
Rail Agency Department Contact Information										
Inspection Location	Metro Center (A01) to Dupont Circle (A03) 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	12				
Recommended Finding	No	No				
Remedial Action Required ¹	No	No				
Recommended Reinspection	No	No				

Activity Summaries

Inspection Activity #	1	Inspec	tion Sub	ject			o Center - Jo Crew)	ob Safety Bri	efiı	ng (Mobile	Activity Co	de	т	Р	JSB	OBS
Job Briefing Employee Name/Title	WM	ATA RWIC				mpanied ctor?	Yes	-	Out Brief Conducted	Yes Time		_	00- 00	Outside Shift	No	
Related Reports	N/A					Relat	ed CAPS / F	indings	Ν	I/A						
	Ref					Rule	or SOP	Standard			Other / T	itle		Che	cklist Refere	ence
Related Rules, SOPs, Standards, or Other	03 (A	MATA PERMANENT ORDER R-17- (ADVANCED MOBILE FLAGGER), DAY APRIL 28, 2017														
Inspection Location	Ma Tra		Yard	Station	0	сс	RTA Facility	FTA Office	т	rack Type	At-grade	e Tui	nnel	Ele	evated	N/A
	Х												x			
Lino(c)	A-Lin	0	Track	Number		track	Chain N	n Marker From					То			
Line(s)	A-LII	e	TIACK	vuniber		1	and/or	Station(s)	s) _{N/A} N/A							
Vehicles	Hea	ad Car Ni	umber	Numb	er of	f Cars	Equipr	ment	Ν	I/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		Date
	WINSLOW L. POWELL	Digitally signed by WINSLOW L POWELL DNc: cu-US, ou-US Government, ou-#FAHQ, ou=DOT Headquarters, cn=WINSLOW L POWELL Date: 2017.07.27 13:06:14-04'00'
Inspector in Charge – Name	Inspection Team	
Winslow Powell	Tino Sahoo	

Form FTA-IR-1 Version date: 8/26/16

	N/A	N/A				
		ed a job safety briefing			Number of Defects	0
		ersonal protective equip vere checked and the wo			Recommended Finding?	No
		er in charge (RWIC) cov			Remedial Action Required?	No
Description	Roadway Access Guide In addition to the requirequired equipment, ai 03 (ADVANCE MOBILE consisted of WMATA-ai (18'x18') calibrated wo The AMF did notify the place (next station ahe flashing amber lantern of the platform (8-car m	t spots, hazards, clearan were used as part of the red PPE, the Advanced I ad was compliant with " FLAGGER), FRIDAY APRII pproved flashing amber rking radio, air horn, and RWIC via positive comn ad in the direction the n /E-flare and the orange f narker or end gate). No id not note any defects.	e discussion. Mobile Flagger (AMF) WMATA PERMANENT L 28, 2017." This equi lantern/E-flare, oran d whistle. nunication (phone) th nobile crew walked), a flag had been positior exceptions were take	did have the FORDER R-17- pment ge flag at he was in and the ned at the end	Recommended Reinspection?	No
Remedial Action	N/A					

Inspection Activity #	2	Inspectior	Subj	ect		Walk	ing Observ	ation (Cable I	Insp	pection)	Activity Co	de	-	TP	WI	OBS
Job Briefing Employee Name/Title	WMAT	A RWIC					mpanied ector?	Yes		Out Brief Conducted	Yes	Time		000- 400	Outside Shift	No
Related Reports	N/A					Relat	ted CAPS /	Findings	1	N/A						
	Ref					Rule	or SOP	Standard			Other / T	ïtle		Che	cklist Refer	ence
Related Rules, SOPs, Standards, or Other	- TRST AND IN (REVIS TRACT DRAW REVISII ENGIN INSTRU EXPAN POWEI SYSTEM	AND STRU 1000 TRA SPECTION ION 7, MA ION POWE ING (DD-TI ON 0, AUG EERING M JCTIONS (E ISION, AND R CABLES F M WIDE (R MBER 16, 2	CK MA MAN RCH 2 P-SSI-(UST 2 ODIFIC MI) F TRAM REPLAC	AINTENAN IUAL 017) GIGN 013, 001) CATION OR JUMPE NSITION CEMENT	CE											
Inspection Location	Main Track	Yar	t	Station	0	CC	RTA Facility	FTA Office	1	Frack Type	At-grade	e Tu	innel	Ele	evated	N/A
	Х												Х			
Line(s)	A-Line	т.	ock N	umber		track	Chain	Marker			From				То	
Line(s)	A-LITE		ack IN	umber		1	and/o	r Station(s)		Metro Cen	ter (A01)		D	upont	Circle (A03)	
Vehicles	Head	l Car Numb N/A	ber	Numl	ber o N/A	f Cars	Equip	oment	r	N/A						
				•			0	inspection o	n t	rack 1 of	Number	of Defe	ts			12
	the A-I	Line betwe	en Me	etro Cente	er (A0)1) and	l Dupont Ci	rcle (A03).			Recomm	ended F	inding	?		Yes
	The fo	llowing ne	w def	ects were	obse	erved.	and there	were no colo	r-c	oded	Remedia	l Action	Requi	red?		Yes
Description	conditions noted: Non-compliance with Traction Power Design Drawing DD-TP-SSI-013: Recommended Reinspection? Yes - Conduit stub-up was broken and needs new OZ Gedney bushing at A1 015+00. (See Figure 1.) Yes Yes									Yes						



	 Cable jacket nicked at A1 046+00. (See Figure 3.) Damaged cable and damaged boot from rubbing against 3rd rail cover board at A1 056+00. (See Figures 7 and 8.) Conduit stub-up was broken and needs new OZ Gedney bushing at A1 057+00. (See Figure 9.) TRST 1000 Manual, 13.5.2: 3rd rail tie anchor broken at A1 019+00. (See Figure 2.) TRST 1000 Manual, 13.5.7: Cover board loose on 3rd rail at A1 024+00. TRST 1000 Manual, 13.5.7: Missing 3rd rail cover board at A1 045+00. TRST 1000 Manual, 13.5.7: Missing 3rd rail cover board at A1 045+00. TRST 1000 Manual, 13.5.7: Standing water and caked mud surrounding 3rd rail insulators from A1 047+50 to A1 048+00. (See Figure 4.) TRST 1000, defect 3.2.2.1: Trough/invert drain clogged from A1 047+50 to A1 050+50. (See Figure 5) TRST 1000 Manual, 13.3.2: Physical 3rd rail rusted out at A1 055+50. (See Figure 6.) TRST 1000 Manual, 3.2.2.4: Water leaking from tunnel ceiling onto 3rd rail cover board at A1 055+50. (See Figure 6.) TRST 1000 Manual, 13.5.7: Missing 3rd rail cover board from A1 056+00 to A1 060+00. Other Notable Observations: A1 045+00 – Trash and debris surrounding power feeder cable conduit stub-ups. 	
Remedial Action	 To achieve compliance with WMATA's requirements: WMATA must install new OZ Gedney bushing at A1 015+00. WMATA must replace nicked cable at A1 046+00. WMATA must replace damaged cable and damaged boot at A1 056+00. WMATA must install new OZ Gedney bushing at A1 057+00. WMATA must replace 3rd rail tie anchor at A1 019+00. WMATA must replace cover board at A1 024+00. WMATA must replace cover board at A1 045+00. WMATA must replace cover board at A1 045+00. WMATA must ritigate water intrusion, clear standing water, and clear caked r WMATA must ritigate water intrusion and clean out trough/invert drain betw WMATA must mitigate water intrusion at A1 055+50. WMATA must mitigate cover board from A1 056+00 to A1 060+00. 	



Photos:



FIGURE 1 –A1 015+00 - CONDUIT STUB-UP BROKEN AND NEEDS NEW OZ GEDNEY BUSHING.



FIGURE 2 - A1 019+00 - 3RD RAIL TIE ANCHOR BROKEN



FIGURE 3 - A1 046+00 - CABLE JACKET NICKED



FIGURE 4 – A1 047+50 TO A1 048+00 - STANDING WATER AND CAKED MUD SURROUNDING 3RD RAIL INSULATORS



FIGURE 5 - A1 047+50 TO A1 050+50 - TROUGH/INVERT DRAIN CLOGGED



FIGURE 6 – A1 055+50 - PHYSICAL 3RD RAIL RUSTED OUT AND WATER LEAKING FROM CEILING ONTO 3RD RAIL COVER BOARD



FIGURE 7 – A1 056+00 - DAMAGED CABLE FROM RUBBING AGAINST 3RD RAIL COVER BOARD



FIGURE 8 – A1 056+00 - DAMAGED ORANGE BOOT FROM RUBBING AGAINST 3RD RAIL COVER BOARD



FIGURE 9 – A1 057+00 - CONDUIT STUB-UP BROKEN; NEEDS NEW OZ GEDNEY BUSHING



Agency/Department Information

Increation Data	YYYY	MM	DD	Report Number	20170720-WN	1 A T A A	C 1			
Inspection Date	2017	07	20	Report Number	20170720-001	VIATA-AU-1				
Rail Agency Name	Washington Authority	Metropolitan	Area Transit	Rail Agency Department	TRST	artment	TKIN			
	I	Name		Email	Office Phone	е	N	1obile Phone		
Rail Agency Department Contact Information										
Inspection Location	Rhode Island	Ave. Station	(B04)							

Inspection Summary

Inspection Activity #	1	2	3	4	5	6
Activity Code	TRK-JSB-OBS	TRK-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 Sul	oject	ect Roadway Worker Protection – Job Safety Briefing						ode	TR	К	JSB	OBS
Job Briefing Employee Name/Title	TRST U	nit #6112			Accor Inspe	npanied ctor?	Yes	Out Brief Conducted	No	Time	103 120		Outside Shift	No
Related Reports	N/A				Relat	ed CAPS / I	Findings	N/A						
	Ref			Rule or S	OP		Standard		Other / T	ītle		Cheo	cklist Refe	ence
Related Rules, SOPs, Standards, or Other	RWPM													
Standards, or other														
	Main Track	Yard	Stati	on C	осс	RTA Facility	FTA Office		At-grad	e Tui	nnel	Elevated		N/A
Inspection Location			х					Track Type					х	
		Tue als				Chain Ma			From				То	
Line(s)	B-Line	Track Numb		track 2		Chain Ma and/or St		Rhode Island (B04)	Avenue Sta	tion	Rhod (B04)		id Avenue	Station
	Head	Car Number	1	Number c	of Cars									
Vehicles		N/A		N/A		Equip	ment	N/A						
Description									Number	of Defect	s			0

Inspector in Charge - Signature	DAM ANTHONY GIOVANDO	Digitally signed by ADAM ANTHONY GIOVANDO DN: c=US, o=U.S. Government, ou=FRA FRAFtWor cn=ADAM ANTHONY GIOVANDO Date: 2017.07.25 10:53:35 -05'00'	Date thTX, ou=DOT FRAFtWorthTX,
Inspector in Charge – Name	Inspection Team		
Adam Giovando	Alexander Nepa		



		it 6112 cond		,	'	0			Recomm	ended Fi	nding?			No
		platform. The ion (RWP) red		0	, ,			adway worker	Remedia	l Action F	Require	ed?		No
	briefing		Junchi		скеерно	ins were a		Jo Surcey	Recomm	ended Re	einspec	tion?	No	
Remedial Action	N/A													
Inspection Activity #	2 I	nspection Su	bject	Advan	ed Mob	ile Flagger	(AMF) Obse	rvation	Activity Co	ode	TR	K	RC	OBS
Job Briefing Employee Name/Title	TRST Ur	nit #6112			Accor Inspe	npanied ctor?	Yes	Out Brief Conducted	No	Time		1030- 1200		No
Related Reports					Relate									
Deleted Dulas CODe	Ref			Rule or	SOP		Standard		Other / 1	ïtle		Checkl	ist Refer	ence
Related Rules, SOPs, Standards, or Other				P.O. R 1	7-03									
	Main					DTA	FTA							
	Main Track	Yard	Stat	ion	осс	RTA Facility	Office	Tuesda Taura	At-grad	e Tu	nnel	Eleva	ted	N/A
Inspection Location			x					Track Type				х		
		Track				Chain Ma	ul.e.u		From				То	
Description	B-Line	Numb		N/A		and/or St		Rhode Island (B04)	Avenue Sta	tion	Rhod (B04)		Avenue :	Station
	Head	Car Number		Number	of Cars									
Vehicles		N/A		N/	4	Equip	oment	N/A						
		O Inspector p					•		Number	of Defect	ts			0
Description		de Island Ave							Recomm	ended Fi	nding?			No
Description	complia	•	Carcerry	inter the s	un peri	ormance	or train open		Remedia	l Action F	Require	ed?		No
									Recomm	ended Re	einspec	tion?		No
Remedial Action	N/A													



Agency/Department Information

Federal Transit Administration

Inspection Date	YYYY	MM	DD	Report Number	20170721-WN	1 A T A A	C 1	
Inspection Date	2017	07	21	Report Number	20170721-001		-1 -1	
Rail Agency Name	Washington Authority	Metropolitan	Area Transit	Rail Agency Department	TRST	Sub- Dep	artment	INSP
	l	Name		Email	Office Phone	5	N	1obile Phone
Rail Agency Department Contact Information								
Inspection Location	A-Line track	2, Twinbrook	to Rockville					
Increation Summary								

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 Su	bject	Roadwa	y Worl	ker Protecti	on – Job Saf	ety Briefing	Activity Co	ode	TR	K	JSB	OBS
Job Briefing Employee Name/Title	TRST U	Init #6030				mpanied ector?	Yes	Out Brief Conducted	No	Time	100 150		Outside Shift	No
Related Reports	N/A				Relat	ed CAPS /	Findings	N/A						
	Ref			Rule or S	OP		Standard		Other / 1		Chec	klist Refer	ence	
Related Rules, SOPs, Standards, or Other	RWPM	l												
standards, or other	MSRPH	1												
	Main Track	Main Track Yard Station				RTA Facility	FTA Office	Office		e Tu	nnel	Ele	vated	N/A
Inspection Location	х							Track Type	x					
1(.)		Track	:			Chain Ma	rker			Тс				
Line(s)	A-Line	Num	ber	track 1		and/or St	ation(s)	Twinbrook St	ation (A13)		Rock	Rockville Station (A14)		
Maletala a	Head	l Car Number		Number o	of Cars									
Vehicles		N/A		N/A		Equip	ment	N/A						
Description		•			fety briefing from the RWIC at Twinbrook (A1			. ,	Number	ts			0	
Description	prior to	o entering the	roadw	ay. The briefing covered the type of on track				Recommended Finding?					No	

Inspector in Charge - Signature	DAM ANTHONY GIOVANDO DN: c=U5, o=U5. Government, ou=FRA FRAFtWorthTX, ou=FRA FRAFtWorthTX, ou=DOT F DATE: 2017.07.25 10:52:57 -05'00'	RAFtWorthTX, cn=ADAM
Inspector in Charge – Name	Inspection Team	
Adam Giovando	Alexander Nepa	



Elevated

N/A

United States Department of Transportation Federal Transit Administration

Yard

Track

oction Locati

Station

осс

Facility

	hazaro	ction (Train App ds and hotspots	, safe	ty rule of t	he day	, location of	nearest hos	spital, and a	Remedia	Action	Require	d?		No
		of personal pro				d roadway w	orker prote	ction ID.	Recomm	ended R	einspect	tion?	? No	
Remedial Action	N/A													
Inspection Activity #	2	Inspection Subject Track Inspection Activity Code TRK WI PI												
Job Briefing Employee Name/Title	TRST (Jnit #6030				ompanied ector?	Yes	Out Brief Conducted	No	No Time 1000			Outside Shift	No
Related Reports					Rela	ted CAPS / I	indings							
	Ref			Rule or S	OP		Standard		Other / 1	ītle		Check	Checklist Reference	
Related Rules, SOPs, Standards, or Other	TRST-:	1000 rev. 6												
	Mair	Yard	Sta	tion C	CC	RTA	FTA		At-grade Tunnel Elevai				ited N/A	

Office

At-grade

Tunnel

Inspection Location	х		х				Track Type	x				
Line(s)	A-Line	Track		track 1	ack 1 Chain M		From			То		
		Numb	er		and/or S	tation(s)	Twinbrook Sta	rook Station (A13) Rockville Station (A14				
	Head Ca	r Number	Nu	umber of Cars								
Vehicles	Ν	/A		N/A	Equi	oment	N/A					
				MATA employ				Number of Defects			1	
	•			the A-Line be		· · /	and Shady me area. Due	Recommen	ded Findin	g?	Yes	
	•			cessive heat, t				Remedial A	ction Requ	ired?	Yes	
Description		TRST 1000	noted th Manua	ie following c I, 7.9.2.1: At A bolts, (twist s	1 701+60,	at the frog of	the 3A switch, is a green	Recommen	ded Reinsp	ection?	Yes	
Remedial Action	To achieve	e compliand	e with V	/MATA's requ	irements:					·		
Remeular Action	•	WMATA n	nust secu	ire lag bolts a	t A1 701+60)						



Agency/Department Information

Federal Transit Administration

Inspection Date	YYYY	MM DD		Report Number	20170721-WMATA-WP-1					
inspection Date	2017	07	21	Report Number	201/0/21-001	VIATA-V	VP-1			
Rail Agency Name	Washington Authority	Metropolitan	Area Transit	Rail Agency Department	TRPM	Sub- Dep	partment	СМ		
		Name		Email	Office Phone	е	N	Nobile Phone		
Rail Agency Department Contact Information	Agency Department									
Inspection Location	tracks 1 and 2,	and Arlington Cemetery	/ Traction Power Subst	ation (TPSS	5)					

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	Inspectio	on Subje	ect	Job Safe	ety Brie	fing			Activity Co	ode	TF	D	JSB	OBS
Job Briefing Employee Name/Title	WMA	TA RWIC					mpanied ector?	Yes	Out Brief Conducted	Yes	Time	0100 0500		Outside Shift	Yes
Related Reports	N/A					Relat	ted CAPS /	Findings	N/A						
	Ref				Rule or S	OP		Standard		Other / T	ïtle		Check	ence	
Related Rules, SOPs, Standards, or Other	RWPN	N													
Standards, or Other		Main													
		Main Track Yard Station				осс	RTA Facility	FTA Office	Treads Treads	At-grade	e Tu	nnel	Eleva	ated	N/A
Inspection Location	x								Track Type	x					
Line(a)	C-Line		Track		N/A		Chain Ma	rker		From		То			
Line(s)	C-LINE	2	Numbei	r	N/A		and/or S	ation(s)	N/A			N/A			
	Неа	d Car Nun	nber	Ν	lumber c	of Cars									
Vehicles		N/A N/					Equi	ment	N/A						
		FWSO personnel received a job safe					0			Number	of Defect	s			0
Description		• •	· ·		•	rotective equipment (PPE) and roadway worker ked and the working limits were reviewed. The				Recommended Finding?					No

Inspector in Charge - Signature		Date
	WINSLOW L. POWELL	Digitally signed by WINSLOW L POWELL DN: c=US, a=US. Government, ou=FTAHQ, ou=DOT Headquarters, cn=WINSLOW L POWEL Date: 2017.07.27 13:00:32 -04'00'
Inspector in Charge – Name	Inspection Team	
Winslow Powell	Tino Sahoo	



	spots, ha used as p	zards, cleara oart of the di	ince areas, c	ommunica	tion, and R	rule of the d oadway Acce	ay. The hot ess Guide were						
Inspection Activity #	2 In	spection Sul	oject	Cable Re	eplacement	Observatior	ı	Activity Co	ode	TF	р	RM	OBS
Job Briefing Employee Name/Title	WMATA	RWIC		Accomp Inspecto		Yes	Out Brief Conducted	Yes	Time	0100 0500		utside Shift	Yes
Related Reports	N/A			Related	CAPS / Fin	dings	N/A						
	Ref			Rule or S	SOP	Standard		Other / T	ïtle		Checklis	st Refer	ence
Related Rules, SOPs, Standards, or Other	INSTRUC JUMPER, TRANSIT REPLACE (REVISIO 2016) PREVENT INSPECTI	RING MODII TIONS (EMI) EXPANSION ON POWER MENT SYSTE N 2, SEPTEM TVE MAINTE ON (PMI)	FOR , AND CABLES EM WIDE IBER 16, NANCE										
	1000 KCI (REVISIO	CK FEEDER C MIL/1500 KC N 4, JUNE 16	MIL										
	Main Track	Yard	Station	OCC	RTA Facility	FTA Office		At-grade	e Tu	nnel	Elevat	ed	N/A
Inspection Location	х						Track Type	х					
			I	tracks	Chain Ma	arker		From				То	
Line(s)	C-Line	Track	Number	1 and2	and/or Si		Arlington Cer	netery (C06)	TPSS	C1 an	nd C2 CM	218+00	
	Head C	ar Number	Numb	er of Cars						2110			
Vehicles		N/A		N/A	Equip	ment	Negative retu	irn cable (10	100 kcmil,	, 2 kV)			
						nt and electr		Number	of Defect	ts			0
						al negative r ion Power Su	eturn cables Ibstation	Recomm	ended Fi	nding?			No
Description	switchbo to protec 2) and or bond wa During th	ard. Electric t these cable iginate from yside per each ne inspectior	al contractor es (which are the TPSS. Th ch track.	rs also insta e located in nese cables Inspector c	alled FRE (fi the cable will be ins observed th	installing the	Remedia					No	
Remedial Action	jumper, o Septemb	expansion, a er 16, 2016.	nd transition	power cal	oles replace	ent process.							



Agency/Department Information

Federal Transit Administration

Inspection Date	YYYY	MM	DD	Report Number	20170722-WMATA-AG-1					
	2017	07	22	Report Number						
Rail Agency Name	Washington Authority	Metropolitan	Area Transit	Rail Agency Department	TRST	Sub- Dep	TKIN			
	1	Name		Email	Office Phone	e	Mobile Phone			
Rail Agency Department Contact Information										
Inspection Location	F-Line, track 2, Suitland (F10) to Naylor Road (F09)									

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 Su	ıbject	Job Saf	ety Brie	fing			Activity Co	ode	TR	K	JSB	OBS		
Job Briefing Employee Name/Title	TRST Unit #6191					mpanied ector?	Yes	Out Brief Conducted	No	No Time		00- 00	Outside Shift	No		
Related Reports	N/A					Related CAPS / Findings N/A										
	Ref Rule or				SOP	OP Standard			Other / Title			Checklist Reference				
Related Rules, SOPs, Standards, or Other	RWPM															
Inspection Location	Mair Tracl	Yard	Stat	ion	CC	RTA Facility	FTA Office		At-grade Tur		nnel El		evated	N/A		
	x							Track Type	x	x						
Line(s)	F-Line	Trac	¢	track 2)	Chain Ma	rker		From			То				
Line(s)	P-Line Number		ber	LI dCK 2	<u>.</u>	and/or St	ation(s)	n(s) Suitland (F10			Naylo	ylor Road (F09)				
	Head Car Number			Number of Cars				NI/A								
Vehicles		N/A N			4	Equip	ment	N/A								
Description						·			Number	of Defect	s			0		

Inspector in Charge - Signature	DAM ANTHONY GIOVANDO	Digitally signed by ADAM ANTHONY GIOVANDO DN: c=US, o=U.S. Government, ou=FRA FRAFtWo en=ADAM ANTHONY GIOVANDO Date: 2017.07.26 11:02:09 -05'00'	Date rthTX, ou=DOT FRAFtWorthTX,
Inspector in Charge – Name	Inspection Team		
Adam Giovando	Alexander Nepa		



					-		-		he roadway		Recomm	ended Fi	nding?			No
		•		•	,				g the roadwa h Warning), 1	y. The briefing	Remedia	l Action I	Require	ed?		No
	limits, locatio and ro No exc	wher on of t adwa	re to clear, the neares ay worker p	know t hosp protec	n hazard bital, and ction ID.	Recomm	Recommended Reinspection?				No					
Remedial Action	N/A															
Inspection Activity #	2 Inspection Subject Track Inspection										Activity Co	ode	TR	K	WI	PI
Job Briefing Employee Name/Title	TRST Unit #6191					Accompanied Inspector?			Yes	Out Brief Conducted	No	Time	0700 1500		Outside Shift	Yes
Related Reports	N/A					Rela	ted C/	APS /	Findings	N/A	_					
Related Rules, SOPs, Standards, or Other	Ref TRST-1000, rev. 6				Rule or S	or SOP Standard				Other / T	Other / Title Check				list Reference	
Inspection Location	spection Location X Main Track Yard St Yard X		Stat	ion (OCC RT/ Facil			FTA Office	Track Type	At-grad	e Tu	nnel	Elev	ated	N/A	
									The rype	x			Х			
	F-Line		Track Numbe	er	track 2	2	Chain Marker and/or Station(s)			Suitland (F10)	From		To Naylor Road (F09)			
Vahialaa	Head	Head Car Number of Cars								NI / A						
Vehicles	N/A N/A Equipment N/A								N/A							
		FWSO inspector observed WMATA employees and contractors performing a track										Number of Defects				
		inspection on track 2 of the F-Line between Suitland (F10) and Naylor Road (F09). In addition, FWSO inspected track conditions in the same area.									Recomm		Yes			
	The following color-coded defects were observed: Remedial Action Required? • TRST 1000 Manual; 7.9.2.1, 11.3., 11.3.7: Between F2 401+00 and 398+00, most lag screws (screw spikes) were not holding as designed, and allowing dynamic gauge up to 57-1/2 inches. (See figures 1 and 2) Red condition. Red condition. • TRST 1000 Manual; 6.8.1: Between F2 399+90 and 400+00, there were five defective non-holding crossties in a row allowing 57-3/8 to 57-1/2-inch dynamic gauge. Red condition. Recommended Reinspection? • TRST 1000 Defect 6.8.1, Between F2 397+90 and 398+00 there are nine defective, non-holding crossties in-a-row allowing 57-3/8 to 57-1/2-inch dynamic gauge. Red condition. Recommended Reinspection? • TRST 1000 Defect 5.11.7, Between F2 400+60 and 400+70 low rail (left) spalling condition. Yellow condition. Recommended Reinspection?										Remedia		Yes			
Description											Yes					
Remedial Action	To ach		WMATA m WMATA m	ust co ust re ust re	prrect the place the place the	e non-h e defect e defect	olding tive cr tive cr	g lag so osstie osstie	s between Fi s between Fi	on between F2 4 2 399+90 and 4 2 397+90 and 3 0 and 400+70.	00+00.	398+00.				



Photos:



Figure 1: 1/4-inch field side dynamic plate movement at F2 401+00.



Figure 2: Field side plate movement at F2 401+00.



Agency/Department Information

Federal Transit Administration

Inspection Date	YYYY	MM	DD	Report Number	20170723-WMATA-AG-1						
inspection Date	2017	07	23	Report Number	20170725-001	VIATA-A	-1 -1				
Rail Agency Name	Washington Metropolitan Area Transit Authority			Rail Agency Department	TRST	Sub- Dep	ΤΚΙΝ				
	Name			Email	Office Phone	e	Mobile Phone				
Rail Agency Department Contact Information											
Inspection Location	E-Line, track	E-Line, track 1, College Park (E09) to West Hyattsville (E07)									

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	12				
Recommended Finding	No	Yes				
Remedial Action Required ¹	No	Yes				
Recommended Reinspection	No	Yes				

Activity Summaries

Inspection Activity #	1	Insp	pection Subj	ect	Roadwa	ay Work	er Protecti	on – Job Safe	ety Briefing	Activity Co	ode	TR	К	JSB	OBS
Job Briefing Employee Name/Title	TRST	Unit	#6191			Accor Inspe	npanied ctor?	Yes Out Brief Conducted		No	Time	100 150	-	Outside Shift	No
Related Reports	N/A	N/A				Relate	ed CAPS /	Findings	N/A						
	Ref	Ref Rule or S			OP		Standard		Other / T	ītle		Check	list Refer	ence	
Related Rules, SOPs, Standards, or Other	RWPI	М													
Standards, or other															
Inspection Location	Mai Trac		Yard	Stat	ion (осс	RTA Facility	FTA Office	Track Type	At-grad	e Tui	nnel	Elev	ated	N/A
	х								The type	х					
Line(c)	E-Line	•	Track		track 1		Chain Ma	rker		From				То	
Line(s)	E-LIN	e	Numbe	er	LTACK 1		and/or St	ation(s)	College Park	(E09)		West	Hyatts	ille (E07)
Vehicles	Hea	nd Car	[.] Number		Number o	of Cars	Equip	mont	N/A						
venicies		N,	/A		N/A	1	Equip	ment	N/A						
		•					0		orker in charge	Number	of Defect	s			0
Description	•	'		•	<i>,</i> .		0	way. The brieng), the work	efing covered	Recomm	ended Fi	nding?			No
	the ty	ype o		01201		гдрргос		is,, the work	ing innits,	Remedial Action Required?					No

Inspector in Charge - Signature	DAM ANTHONY GIOVANDO	Digitally signed by ADAM ANTHONY GIOVANDO DN: c=US, o=U.S. Government, ou=FRA FRAFtWorth ANTHONY GIOVANDO Date: 2017.07.26 15:22:28 -05'00'	Date TX, ou=DOT FRAFtWorthTX, cn=ADAM
Inspector in Charge – Name Adam Giovando	Inspection Team Alexander Nepa		



	of the ne roadway	o clear, known earest hospita worker prote	al, and a ection I	a check (ID.	of perso	onal protect	ive equipme		Recommended Reinspection?					No	
Remedial Action	N/A	o inspector	соок nc	o except	ions to	the job safe	ety briefing.								
Inspection Activity #	2 In	spection Sub	iect	Track Ir	nspectio	on			Activity Co	ode	TR	K	WI	PI	
Job Briefing Employee Name/Title	TRST Un		,		Accompanied Inspector? Yes Out Brief Conducted			No	Time	100 150	00-	Outside Shift	No		
Related Reports	Safety D	irective 15-1			Relat	ted CAPS / I	Findings	CAPs: R-2-18	-A and R-2-1	9-A					
Related Rules, SOPs, Standards, or Other	Ref TRST-10	RefRule oTRST-1000 rev. 6			SOP		Standard		Other / T	ïtle		Chec	klist Refer	ence	
Inspection Location	Main Track	Yard	Statio	on (occ	RTA Facility	FTA Office	Track Type	At-grade	e Tu	innel	Ele	vated	N/A	
Inspection Location	x							Пасктуре	х		Х		x		
Line(s)	E-Line	Track	er	track 1	L	Chain Mar and/or Sta		College Park	From E09) West Hyattsv				To sville (E07)		
Vehicles		Car Number	N	lumber (N/A		Equip		N/A	vest flyatisvi				54ine (207)		
Description	Hyattsvil	owing color-c TRST 1000 support w Condition TRST 1000 insulator s Condition. Owing non-co TRST 1000 down. TRST 1000 third switc TRST 1000 cover boar TRST 1000 number th	ddition, oded d Manua as not h Manua upport lor-cod Manua h rod v Manua rd was n Manua ree and	, FWSO i lefects w al 13.3.8 holding. al, 13.3. was mis led defe al, 3.1.2 al, 9.1: <i>A</i> vas loose al, 13.3. missing. al, 9.1: <i>A</i> d four sv	nspecte vere ob: 3: At E1 (See att 8., table ssing. (S cts wer .5: At E: At E1 52 e. 14: At E ht E1 41 vitch ro	ed track con served: 411+50, the tached Figu e 13.6: At E: tee attached 1 511+00, th 9+90, at the 1 414+00, at 4+15, at the ds were loo	ditions in the third rail in the third rail in the tand 2). 1 411+60, the tand 2). 1 411+60, the tand tand tand tand tand tand tand tand	is same area. Isulator Yellow Te third rail Yellow rker sign was 1A switch, gnal, the end 1A switch,	Recomm	I Action	Require	ed?		Yes Yes Yes	
 TRST 1000 Manual, 9.22: At E1 414+15, at the E08 signal, 1A switch i the frog, an adjustable brace wedge was missing. TRST 1000 Manual, 13.3.13: At E1 406+60, the third rail support cab anchor arm was disconnected. (See attached Figure 4). TRST 1000 Manual, 3.1.2.2: At E1 393+75, poor drainage allowed mu and silt to build in the gauge of the track. TRST 1000 Manual, 10.15: At E1 386+30, the tunnel light is not working and the lens is laying in the gauge of the track. TST 1000 Manual, 13.3.14: At E1 382+80, the end approach cover board is missing. Permanent Order R-16-07: At approximately 1315 hours, on track or at CM 402+00, a train with end car number 6036 appeared to approach and pass the advanced watchman at a speed exceeding ha the posted track speed and more than the required 10 mph. Remedi Action for this defect is addressed in WMATA's approach to CAP R-18-A. 		support cable e allowed mud t is not ach cover s, on track one, red to exceeding half nph. Remedial													

	To achieve compliance with WMATA's requirements:
	• WMATA must replace the missing and broken third rail insulator supports at chain markers E1 411+50 and E1 411+60.
	WMATA must correct replace the downed chain marker at E1 511+00.
	• WMATA must tighten the switch rods at the E09 1A switch, chain marker E1 529+90.
	WMATA must replace the missing end cover boards at chain marker E1 414+00.
Remedial Action	• WMATA must tighten the switch rods at the E08 1A switch, chain marker E1 414+15.
	• WMATA must replace the adjustable brace wedge at the E08 1A switch, chain marker E1 414+15.
	WMATA must repair the third rail support cable at E1 406+60.
	WMATA must repair the mud and drainage issues at E1 393+75.
	WMATA must repair and replace the tunnel light at E1 386+30.
	WMATA must replace the missing end cover boards at chain marker E1 382+80.

Photos:



Figure 1: Non-holding third rail insulator support at E1 411+50.



Figure 2: Defective non-supporting crosstie allowing third rail insulator to collapse at E1 411+50.



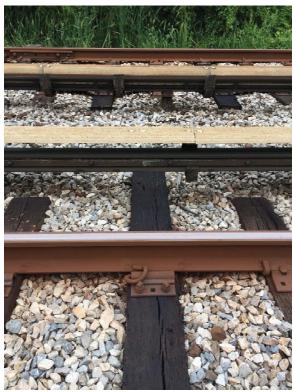


Figure 3: Newly installed 10-foot crosstie without a third rail insulator support attached at E1 411+60.

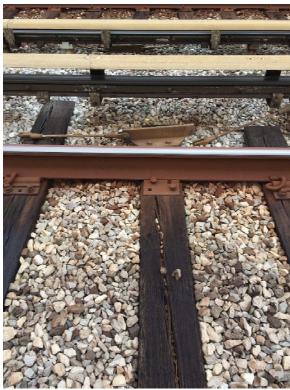


Figure 4: Disconnected third rail cable support at E1 406+60.



Agency/Department Information

Increation Data	YYYY	MM	DD	Report Number	20170725-WMATA-AG-1				
Inspection Date	2017	07	25	Report Number	20170725-001	VIATA-P	-1 -1		
Rail Agency Name	Washington Authority	Metropolitan	Area Transit	Rail Agency Department	TRST	Sub- Dep	artment	TKIN	
	1	Name		Email	Office Phone	9	N	1obile Phone	
Rail Agency Department Contact Information									
Inspection Location	Rosslyn C-K T	losslyn C-K Turnouts tracks 1 and 2							

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 Sub	ject	Job Safe	ety Briefi	ng			Activity Co	ode	TR	К	JSB	OBS
Job Briefing Employee Name/Title	TRST U	nit #6168			Accom Inspec	panied tor?	Yes	Out Brief Conducted	No	Time	1100 0700		Outside Shift	Yes
Related Reports	N/A				Related CAPS / Findings N/A									
	Ref			Rule or S	ОР		Standard		Other / T	ïtle		Cheo	klist Refer	ence
Related Rules, SOPs, Standards, or Other	RWPM													
standards, or other														
	Main Track	Yard	Stati	ion C	осс	RTA Facility	FTA Office		At-grade	e Tur	nnel	Ele	vated	N/A
Inspection Location	x		х					Track Type						
Ling(a)	C and H	<- Track		tracks :	1	Chain Ma	rker		From				То	
Line(s)	Lines	Numb	er	and 2		and/or St	ation(s)	Rosslyn (C05))		Rossly	yn (C0	5)	
Mahialaa	Head	Car Number	1	Number c	of Cars	- Caula		NI (A						
Vehicles		N/A		N/A		Equip	ment	N/A						
Description						1		1	Number	of Defect	s			0

Inspector in Charge - Signature	DAM ANTHONY GIOVANDO	Digitally signed by ADAM ANTHONY GIOVANDO DN: c=US, o=U.S. Government, ou=FRA FRAFtWort ANTHONY GIOVANDO Date: 2017.07.26 15:28:57 -05'00'	Date hTX, ou=DOT FRAFtWorthTX, cn=ADAM
Inspector in Charge – Name Adam Giovando	Inspection Team Adam Giovando & Alexander Nepa		



	FWSO In	spectors rece	eived	a job safe	ety brief	ing from th	e roadway w	vorker in	Recomm	nended Fi	nding?		No		
		,	• •	,	•			ay. The briefing			Required?		No		
	hazards and a ch protecti	<i>,</i> ,	, safe nal pr	ty rule of otective e	the day quipme	, the location nt (PPE) an	on of the nea	to clear, known arest hospital, vorker	Recommended Reinspection?				No		
Remedial Action	N/A	•													
Inspection Activity #	2 Ir	nspection Sub	viect	Track I	nspectio	n			Activity C	ode	TRK	WI	PI		
Job Briefing Employee Name/Title		it #6168	Ject	TIACKI	Acco	mpanied ector?	Yes	Out Brief Conducted	No	Time	1100 0700	Outsid	le _{Yes}		
Related Reports	N/A				Relat	ed CAPS /	Findings	N/A							
	Ref			Rule or	SOP		Standard		Other / 1	Гitle	С	hecklist Re	ference		
Related Rules, SOPs, Standards, or Other	TRST-10	00, rev. 6													
Inspection Location	Main Track	Yard	Sta	tion	осс	RTA Facility	FTA Office	Track Type	At-grad	e Tu	nnel	Elevated	N/A		
	x										x				
	C and K-			tracks		Chain Ma			From			То			
	Lines	Numb	er	and 2		and/or St	ation(s)	Rosslyn (C05)			Rosslyn	(C05)			
Vehicles	Head	Car Number		Number		Equip	ment	N/A							
	EVA/SO In	N/A	form	N/		tion of the	C and K Lin	a switches on		(5.)			-		
	FWSO Inspectors performed a switch inspection of the C- and K-Line switches on tracks 1 and 2 at Rosslyn Station.									of Defect			6 Yes		
	The Coll									ended Fi			Yes		
Description	The following non-color-coded defects were observed: Remedial Action Required? • TRST 1000 Manual; 7.9.2.1: At C1 147+00, switch one, turnout side, two bolts on frog support plate missing. • TRST 1000 Manual; 7.9.2: At C1 147+00, frog at switch one, main side of frog, two Pandrol clips were missing in a row on the rail joint. • TRST 1000 Manual; 7.9.2: At C1 147+00, switch one on the turn-out side, right rail, three defective fasteners were observed in a row with 77 inches between holding fasteners. • TRST 1000 Manual; 6.14.1: At C1 147+00, the heel of the frog at switch one, defective grout pad not properly holding the fastening system. • TRST 1000 Manual; 13.5.7: At C1 147+00 on the turn-out side, third rail adjacent to the catwalk, five continuous pieces of cover board were missing. • Recommended Reinspection? • TRST 1000 Manual; 7.9.2: At C2 146+80, at switch three, left rail, four Pandrol clips were missing in-a-row with 77 inches between holding fasteners. • Recommended Reinspection?										n?	Yes			
Remedial Action	To achie	exists. eve complianc WMATA n WMATA n WMATA n WMATA n WMATA n	e wit nust c nust r nust r nust r nust r	h WMATA orrect the eplace the eplace the epair the eplace the	A's requi e broker e missin e defect grout pa e missin	irements: n frog suppo g Pandrol c ive fastene ad, under th g cover boa	lips at the turn rs at the turn he heel of th ard pieces at	ts on switch one irnout side of sv nout side of swit e frog at C1 147	vitch one, C tch one, rigi +00.	1 147+00 ht rail, C1					



Agency/Department Information

Federal Transit Administration

Inspection Date	YYYY	MM	DD	Report Number	20170725-WMATA-WP-1				
Inspection Date	2017	07	25	Report Number					
Rail Agency Name	Washington Metropolitan Area Transit Authority			Rail Agency Department	TRPM	Sub- Dep	PM		
	I	Name		Email	Office Phone		Mobile Phone		
Rail Agency Department Contact Information									
Inspection Location	Rhode Island Ave. (B04) 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 Sul	bject	Rhode I	sland A	ve. (B04) –	Safety Briefi	ing	Activity Co	ode	TF	D	JSB	OBS
Job Briefing Employee Name/Title	WMA	WMATA Power Personnel				mpanied ector?	Yes	Out Brief Conducted	Yes	Time	1000 1400		Dutside Shift	No
Related Reports	N/A				Relat	ed CAPS /	Findings	N/A						
	Ref Rule or S			OP		Standard		Other / T	ïtle		Check	list Refer	ence	
Related Rules, SOPs, Standards, or Other	RWPM													
Standards) of Other														
Increation I costion	Mair Tracl	Yard	Stati	ion C	DCC	RTA Facility	FTA Office	Treak Turne	At-grade	e Tui	nnel	Eleva	ated	N/A
Inspection Location			х					Track Type						х
Line(c)	B-Line	Track		N/A		Chain Ma	rker		From				То	
Line(s)	B-Line	Numb	er	N/A		and/or St	ation(s)	N/A			N/A			
	Head	d Car Number	l	Number o	of Cars									
Vehicles		N/A		N/A		Equip	ment	N/A						
		personnel rece			·	•			Number	of Defect	s			0
Description	personnel. All personal protective equipment (PPE) and roadway worker Recommended Finding? No							No						

Inspector in Charge - Signature				Date
		WINSLOW L. POWELL	Digitally signed by WINSLOW L. POWELL DN: c=US, o=U.S. Government, ou=FTAHQ, o Date: 2017.07.27 12:56:33 -04'00'	u=DOT Headquarters, cn=WINSLOW L. POWELL
Inspector in Charge – Name	Inspection Team			
Winslow Powell	Tino Sahoo			



nearest hospital and safety rule of the day. The potential safety hazards were discussed The FWSO Inspector did not note any defects.		
Rhode Island Ave. (B04) – Direct Current		

Inspection Activity #	2	Inspecti	on Subj	iect	Rhode Island Ave. (B04) – Direct Current (DC) Switchgear Feeder Breakers Preventive Maintenance (PM)					Activity Code		þ	RM	OBS	
Job Briefing Employee Name/Title	WMA	ra Power	r Persor	nnel	Accompanied Inspector?		Yes	Out Brief Conducted	Yes	Time	1000 1400		Outside Shift	No	
Related Reports					Related	d CAPS / Fin	dings								
	Ref				Rule or SOP Standard			Other / Title			Checklist Reference				
Related Rules, SOPs, Standards, or Other	PREVENTIVE MAINTENANCE INSTRUCTIONS (PMI) FOR WHIPP and BOURNE 750 VOLT DC TYPE MM74 ANNUAL INSPECTION (REVISION 3, JUNE 20, 2013)														
Inspection Location	Mair Tracl	V:	ard	Station	OCC RTA FTA Facility Office		At-grade	e Tu	nnel	Ele	vated	N/A			
				Х			Track Type							х	
						Chain Ma	ulton		From				То		
Line(s)	B-Line		Track N	lumber	N/A	and/or St		Traction Powe (TPSS)	ver Substation Tractic (TPSS)				action Power Substation PSS)		
Vehicles	Неас	l Car Nur N/A	mber		er of Cars	Equip	ment	750 V DC (Wł	/hipp and Bourne – Manufacturer) DC Switchgear				ear		
								ng preventive	Number	of Defect	ts			0	
						. ,	der breakers on Power Sul	on the 750 V	Recomm	ended Fi	nding?			No	
							d PREVENTI		Remedia	Action I	Require	ed?		No	
Description	MM74 observ The FV	MAINTENANCE INSTRUCTIONS (PMI) FOR WHIPP and BOURNE 750 VOLT DC TYPE MM74 ANNUAL INSPECTION (REVISION 3, JUNE 20, 2013) and no issues were observed. Recommended Reinspection? No The FWSO Inspector and WMATA personnel did not note any defects during the replacement process.										No			
Remedial Action	N/A	e.nent p													
Action Action	11/1														



Federal Transit Administration

Form FTA-IR-1

Agency/Department Information

Increation Data	YYYY	MM	DD	Report Number	20170726 14/1	1 A T A A	C 1				
Inspection Date	2017	07	26	Report Number	20170726-WMATA-AG-1						
Rail Agency Name	Washington Authority (W	Metropolitan / /MATA)	Area Transit	Rail Agency Department	Car Maintenance (CMNT) Sub- Department Inspection						
		lame		Email	Office Phone		N	Iobile Phone			
Rail Agency Department											
Contact Information		_									
Inspection Location	New Carrollt	New Carrollton Rail Service and Inspection Facility (D99)									
·F · · · · · · · · ·											
Inspection Summary											

Inspection Summary

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

Activity Summaries

Inspection Activity #	1	Inspectio	on Subje	CT			ons – New (Facility (D9	Carrollton Ra 9)	il Service	Activity Co	ode	VN	Л	SI	OBS
Job Briefing Employee Name/Title	N/A					Accor Inspe	npanied ctor?	No	Out Brief Conducted	Yes	Time	070 110	-	Outside Shift	No
Related Reports	N/A					Related CAPS / Findings Remedial Act			ion ID: N/A						
	Ref			Ru	le or SOI	SOP Standard			Other / T	ïtle		Checklist Reference			
Related Rules, SOPs, Standards, or Other	N/A	N/A 5000 Ser Inspectio "B" Insp Rev. 1.0			pection Inspect	tion		N/A							
Standards, or other	N/A	N/A 5000 S Inspec "A" In			5000 Series Periodic Inspection "A" Inspection Rev. 1.0 09/15/2015			N/A							
	Ma Tra	Ya	ard	Station	OC		RTA Facility	FTA Office		At-grad	e Tu	nnel	Ele	evated	N/A
Inspection Location							х		Track Type						х
Line(s)	N/A		Track	P	N/A Chain Mar				From	1		То			
Line(o)	,A		Number		,,,,		and/or Sta	tion(s)	N/A			N/A			
Vehicles	He	ad Car Num	nber	ber Number of Cars Equipr				nent	N/A						

Inspector in Charge - Signature	DAM ANTHONY GIOVANDO	Digitally signed by ADAM ANTHONY GIOVANDO DN: c=US, o=U.S. Government, ou=FRA FRAFtWorthTX, o ANTHONY GIOVANDO Date: 2017.07.28 12:20:05-05'00'	Date au=DOT FRAFtWorthTX, cn=ADAM
Inspector in Charge – Name	Inspection Team		
Adam Giovando	Bill Hultsch		



	N/A	5118 - 5119 5136 - 5137				
		iodic "B" inspection on ra			Number of Defects	0
		o observed on rail vehicle maintenance activities w			Recommended Finding?	No
	(i.e., Rev. 1.0, 09/15/15				Remedial Action Required?	No
Description	 Task 90 Task 60 Height Task 60 Check Maintenance procedure periodic inspections work The FWSO Inspector of Other Notable Observation WMATA engineering is the 2K, 3K, 5K, and 6K withat the 7K manual updition 	 D: Interior inspection, Sec Doors Test Procedure, Lubrication, Section 60 Check Lubrication, Section 60 Lubrication, Section 60 es were followed and CM re all appropriate Persor 	Section 7.3.2, Push B 0.1.3.7, Collector Shoe 0.1.3.8, Collector Shoe INT personnel perform nal Protective Equipm periodic maintenance nsulting firm. WMAT/	ack Force e Off Rail; Shoe e Pressure ming the eent (PPE). e manuals for	Recommended Reinspection?	No
Remedial Action	N/A					



Agency/Department Information

Federal Transit Administration

Increation Date	YYYY	MM	DD	Depart Number	20170727 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\					
Inspection Date	2017	07	27	Report Number	Number 20170727-WMATA-AG-1					
Rail Agency Name	Washington Authority	Metropolitan	Area Transit	Rail Agency Department	ΤΚΙΝ					
	Name			Email	Office Phone		N	1obile Phone		
Rail Agency Department Contact Information										
Inspection Location	D- and G-Lin	D- and G-Lines, track 1, Benning Road (G01) to Potomac Ave. (D07)								

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	Insp	ection Sub	ject	Job Sa	ety Brie	fing			Activity Co	ode	TR	K	JSB	OBS
Job Briefing Employee Name/Title	TRST	6216					mpanied ector?	Yes	Out Brief Conducted	No	Time	100 130		Outside Shift	No
Related Reports	N/A					Relat	ed CAPS /	Findings	N/A						
	Ref	Ref Rule of			Rule or	SOP		Standard		Other / T	ītle		Chec	klist Refei	ence
Related Rules, SOPs, Standards, or Other	RWP	М													
Standards, or other	MSRI	PH													
	Mai Trac		Yard	Stat	tion	осс	RTA Facility	FTA Office	T	At-grad	de Tunnel		Elev	vated	N/A
Inspection Location	x								Track Type			х			
1:	D- an	id G-	Track		1		Chain Ma	rker		From				То	
Line(s)	Lines		Numbe	er	1		and/or St	ation(s)	Benning Road	d (G01)		Potor	mac Av	e. (D07)	
	Hea	ad Car	. Number		Number	of Cars									
Vehicles		N/	/A		N/	A	Equip	ment	N/A						
					2		0	e roadway w		Number	of Defect	ts			0
	-		,	•	•	· ·	0		(. The briefing	Recomm	ended Fi	nding?			No
Description					•	•		roach Warni pots, the saf	fety rule of the	Remedia	Action I	Require	ed?		No
		2								Recommended Reinspection? No				No	

Inspector in Charge - Signature	DAM ANTHONY GIOVANDO	Digitally signed by ADAM ANTHONY GIOVANDO DN: c=U5, o=U.5. Government, ou=FRA FRAFtWor cn=ADAM ANTHONY GIOVANDO Date: 2017.07.28 12:24:26 -05'00'	
Inspector in Charge – Name	Inspection Team		
Adam Giovando	Adam Giovando, Al Nepa, Mike Vitale		



	-	ion of the n I roadway w		-		-	al protective	equipment						
	No except	tions were t	taken	during th	e briefin	g.								
Remedial Action	N/A													
Inspection Activity #	2 Ins	pection Sub	oject	Remedi	al Action	Follow-U	p Inspection		Activity Co	ode	TR	K	WI	PI
Job Briefing Employee Name/Title	TRST 6216	5			Accom Inspec	panied tor?	Yes	Out Brief Conducted	No	Time	100 130		Dutside Shift	No
Related Reports	20160624 20160626 20170126	-WMATA-T -WMATA-W -WMATA-R -WMATA-A ective 15-1	/A-1 PM-1		Relate	d CAPS / I	Findings	Remedial Act CAPs: R-2-18-		33, 793, 7				
Related Rules, SOPs,	Ref			Rule or S	OP		Standard		Other / T	ïtle		Checkl	ist Refer	rence
Standards, or Other	TRST 1000)		T-16-07										
	MSRPH													
	Main Track	Yard	Sta	tion C	DCC	RTA Facility	FTA Office		At-grade	At-grade Tunnel Eleva		Eleva	ted	N/A
Inspection Location	х							Track Type		x				
Line(s)	D- and G-	Track		track 1		Chain Ma			From					
. ,	Lines	Numb	er			and/or St	ation(s)	Benning Road	d (G01)		Potor	mac Ave	. (D07)	
Vehicles		r Number		Number o		Equip	ment	N/A						
		I/A	forme	N/A		n on track	one of the l	D- and G-Lines			-			-
	-				-			ack conditions	Number of Defects					7
	and follow	v up on prev	viousl	y-issued re	emedial a	actions.	·		Recommended Finding? Remedial Action Required?					Yes Yes
	•	TRST 1000 the right r This locati) Man	ual, 7.9.2.	5: At G1	338+00, t	hree fastene	rs in a row on						



	• Remedial Action #140: Water leak at D1 182+00 has been mitigated.								
	Remedial Action #783: Ballast did not show signs of contamination								
	between the D and G junctions and the portal.								
	Remedial Action #793: Rail has been removed from the roadway								
	between D1 221+00 and 206+00. The remaining segment is addressed								
	in the defect section above.								
	Remedial Action #795: The FWSO Inspectors observed stud bolts								
	holding as required between D1 206+00 and 202+00. In review of								
	WITK 701.2, these bolts meet the required depth. The remedial action								
	will be closed, but this area will continued to be monitored.								
	Remedial Action #1088: The water leak at D1 227+90 has been								
	mitigated.								
	To achieve compliance with WMATA's requirements:								
	• WMATA must mitigate gap under fasteners at G1 338+00.								
Remedial Action	• WMATA must replace defective fasteners at G1 306+50.								
Nemeulai Action	• WMATA must replace broken 3 rd rail insulator at G1 295+30.								
	 WMATA must remove relay rail creating a trip hazard between D1 206+00 and 191+00. 								
	• WMATA must replace broken 3 rd rail insulator at D1 118+00.								

Photos:



Figure 1: Defective Fasteners at G1 338+00.



Figure 2: Drain obstructed by floating slab "puck" at G1 338+00.



Figure 3: Broken insulator at G1 295+30.



Federal Transit Administration

Agency/Department Information

o 1. 1										
Increation Data	YYYY	MM	DD	Bonort Number		4ATA A	C 2			
Inspection Date	2017	07	27	Report Number	20170727-WN		ATA-AG-Z			
Rail Agency Name	Washington Authority (W	•	n Area Transit	Rail Agency Department	Car Maintenance (CMNT) Sub- Department Inspect			Inspection		
		Name		Email	Office Phone	е	Ν	Aobile Phone		
Rail Agency Department										
Contact Information										
Inspection Location	New Carrollt	on Rail Servi	ce and Inspectic	n Facility (D99)						
Inspection Summary	·									
Increation Activity #	1		n	2	1		E	G		

Inspection Activity # 4 5 6 1 2 3 VM-SI-OBS **Activity Code Inspection Units** 1 **Inspection Subunits** 1 0 Defects (Number) **Recommended Finding** No Remedial Action Required¹ No **Recommended Reinspection** No

Activity Summaries

Inspection Activity #	1	Inspec	tion Subj	ect		bservat pection			Carrollton Ra 9)	il Service	Activity Co	de	VN	Λ	SI	OBS
Job Briefing Employee Name/Title	N/A					Accompanied Inspector?			No	Out Brief Conducted	Yes	Time	063 100	-	Outside Shift	No
Related Reports	N/A					Relat	ted CA	APS / F	indings	Remedial Acti	Action ID: N/A					
	Ref			Rule or S					Standard		Other / T	itle		Che	cklist Refer	ence
Related Rules, SOPs, Standards, or Other	N/A				5000 Se Inspecti "C" Insp Rev. 1.0	on ection			N/A							
	Mai Trac		Yard	Stat	ion	осс		TA cility	FTA Office	Office		e Tui	nnel	Ele	evated	N/A
Inspection Location							2	Х		Track Type						х
Line(s)	N/A	·	Track Numbe	er	N/A			in Mar /or Sta	ker tion(s)	N/A	From		To N/A			
	Hea	ad Car N	umber		Number	of Cars			. /				11/1			
Vehicles		N/A				5172 - 5173 Equipme			nent	N/A						
Description	Inspe	ctor obs	served pe	riodic	"C" insp	ection o	n rail	vehicle	es #s 5172 - 5	5173.	Number	of Defect	s			0

Inspector in Charge - Signature	DAM ANTHONY GIOVANDO	Digitally signed by ADAM ANTHONY GIOVANDO DN: c=US, o=U.S. Government, ou=FRA FRAFtWorth ANTHONY GIOVANDO Date: 2017.08.01 14:57:45 -05'00'	Date ITX, ou=DOT FRAFtWorthTX, cn=ADAM
Inspector in Charge – Name Adam Giovando	Inspection Team Bill Hultsch		



Documentation used for these periodic maintenance activities was reviewed and		
deemed current (i.e., Rev. 1.0, 09/15/15). Note: Maintenance Procedures are	Recommended Finding?	No
currently being revised and are in draft for review.	Remedial Action Required?	No
 The following observations were conducted: Task 30, Undercar Electrical, Section 35.4: Traction Inverter Unit. Unit removed from railcar cleaned, inspected, and reinstalled. (See Exhibits 1 and 2 below.) Task 30, Undercar Electrical, Section 30.3: Knife Switch Box. Knife switch box properly cleaned, inspected, and continuity measurements taken with volt ohm meter (VOM). Task 20, Trucks/Couplers, Section 20.6.3: Brake Disc Inspection. Disc thickness measurements taken with caliper and measurements properly written on discs. Task 20, Trucks/Couplers, Section 20.2: Truck Mounted Equipment – General Inspection Guidelines. Disassembly of main traction power cleats/clamps to clean and inspect for cable insulation abrasion under the cleats/clamps. Maintenance procedures were followed and car maintenance (CMNT) personnel performing the periodic inspections wore all appropriate personal protective equipment (PPE). The FWSO Inspector observed no defects. 	Recommended Reinspection?	No
Remedial Action N/A		

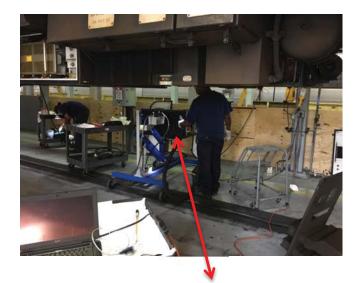


Exhibit 1: Traction Inverter Unit removed from rail car being cleaned and inspected.

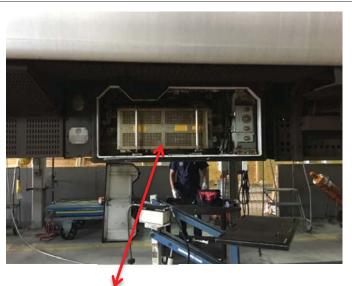


Exhibit 2: Traction Power Unit reinstalled.



Form FTA-IR-1

United States Department of Transportation Federal Transit Administration

Agency/Department Information

Inspection Date	YYYY	MM	DD	Report Number		20170730-WMATA-AG-1				
Inspection Date	2017	07	30	Report Number	20170750-001	VIATA-A	-1 -1			
Rail Agency Name	Washington Metropolitan Area Transit Authority			Rail Agency Department	TRST	Sub- Dep	ΤΚΙΝ			
		Name		Email	Office Phon	e	N	1obile Phone		
Rail Agency Department Contact Information										
Inspection Location	Medical Cen	ter interlockin	g							

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	0				
Recommended Finding	No	No				
Remedial Action Required ¹	No	No				
Recommended Reinspection	No	No				

Activity Summaries

Inspection Activity #	1	Inspection Sub	ject	Job Safe	ety Briefi	ng			Activity Co	ode	TR	К	JSB	OBS
Job Briefing Employee Name/Title	SAFE U	Init #6014 Init #207 Gang Leader Un	it #509	93	Accom Inspect	panied tor?	Yes	Out Brief Conducted	No	Time	083 110		Outside Shift	Yes
Related Reports	N/A				Related CAPS / Findings N/A			N/A						
	Ref			Rule or S	OP		Standard		Other / T	ïtle		Che	cklist Refer	ence
Related Rules, SOPs, Standards, or Other	RWPM													
Standards, or other														
	Main Track	Yard	Stati	on C	осс	RTA Facility	FTA Office		At-grade	e Tui	nnel	Ele	evated	N/A
Inspection Location	х							Track Type			Х			
Line(s)	A Line	Track		tracks	1 (Chain Mai	rker		From	·			То	
Line(s)	ALINE	Numbe	er	and 2	2 and/or Station(s) Medical Center (A10) Bethesda (A09)				A09)					
Vahialaa	Head	Car Number	١	Number o	of Cars	- Fault		NI / A						
Vehicles		N/A		N/A		Equip	ment	N/A						

Inspector in Charge - Signature	DAM ANTHONY GIOVANDO	Digitally signed by ADAM ANTHONY GIOVANDO DN: c=US, o=U.S. Government, ou=FRA FRAFtWor cn=ADAM ANTHONY GIOVANDO Date: 2017.08.01 14:56:57 -05'00'	
Inspector in Charge – Name Adam Giovando	Inspection Team Alexander Nepa		



	FWSO In	spectors rece	eived a	iob safe	tv brief	ing from th	ne safety brie	fer at the	Numbor	r of Defec	te			0	
		-		-		-	-	. The briefing		nended Fi	No				
				•			s, where to cl				No				
Description		and hotspots of personal p				Kellieuk	al Action	Require	eur		NO				
	(RWP) IE		lotecti	ve equip	ment (i	i c) and re		er protection	Recomn	nended R	einspeo	ction?		No	
	No exce	ptions were t	aken t	to the jol	o safety	v briefing.									
Remedial Action	N/A														
Inspection Activity #	2 In	spection Sub	Activity C	ode	TF	RK	WI	PI							
Job Briefing		:+ 207	-						-						
Employee Name/Title	SAFE Un RWIC Ga	it 207 ang Leader Ur	nit #50	93		mpanied ector?	Yes	Out Brief Conducted	No	Time	083 11		Outside Shift	Yes	
Related Reports	N/A				Relat	ted CAPS /	Findings	N/A							
	Ref			Rule or S	SOP		Standard		Other /	Title		Checklist Reference			
Related Rules, SOPs, Standards, or Other	TRST-10	00, rev. 6													
Standards, or Other															
	Main Track Yard Sta		Stati	Station OC		RTA Facility	FTA Office		At-grad	le Tu	nnel	Eleva	ited	N/A	
Inspection Location	х							Track Type			х				
	A Line	Track		tracks					From				То		
		Numb	-	and 2		and/or S	tation(s)	Medical Cent	er (A10)		Beth	esda (A0	9)		
Vehicles	Head C	Car Number	1	Number	of Cars	Cars Equipment N/A									
		N/A		N/#	4								_		
		O Inspector o				Number	of Defec	ts			0				
	-	on between B Center interl		• •	and we	Recomn	nended Fi	inding?			No				
			-			Remedial Action Required?				No					
		ctor first ider rough the tu													
	prepping	er-type nozzle g it for the inj	ection	process.	Some of										
	of wood	, while others	s were	kept ope	en allow										
Description	holes pe	d crew follow netrating the	path o	of the wa	iter up t										
	(or the lo	th greater he owest point c ertically; app	of the t	unnel) w	here w	Recomn	Recommended Reinspection? No				No				
								nately forcing							
							n allowed to								
	-	n cylinder was shed flush wit													
		ached photos				iation prod	cess.)								
	The FWS	SO Inspector	noted	no defec	ts.										
Remedial Action	N/A														





Figure 1: Crews on mobile scaffolding drilling ¾-inch holes through the tunnel liner into the bedrock above the lining at the source of the water.



Figure 2: After holes are bored, water was released from the entering source.





Figure 3: Water draining from another bored hole.



Figure 4: Pooling water from a bored hole accumulating on tunnel floor at the base of the rail.





Figure 5: Cylinder/valve injection device placed into the hole prepared for solution injection.





Figure 6: Crews in hi-rail bucket truck preparing to inject the solution into holes.





Figure 7: Hole after the solution is applied. After ample time to dry, the injection cylinder is removed, and the remaining hole filled. The cement finished is flush with the tunnel liner.





Figure 8: Completed and finished boring hole.



Agency/Department Information

Federal Transit Administration

Inspection Date	YYYY	MM	DD	Poport Number	20170731-WMATA-AG-1						
	2017	07	31	Report Number							
Rail Agency Name	Washington Authority	Metropolitan	Area Transit	Rail Agency Department	TRST Sub- Department						
	1	Name		Email	Office Phone	e	Mobile Phone				
Rail Agency Department Contact Information											
Inspection Location	K-Line, track 2, East Falls Church (K05) to Ballston (K04)										

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 I	nspection Sub	ject	Job Saf	ety Briefing				Activity Co	TRK		JSB	OBS		
Job Briefing Employee Name/Title	TRST 61	TRST 6126			Yes		Out Brief Conducted	Yes	Time	100 130		Outside Shift	No		
Related Reports	N/A				Relate	d CAPS /	indings	N/A							
	Ref			Rule or S	SOP		Standard		Other / 1	Title		Chec	klist Refei	rence	
Related Rules, SOPs, Standards, or Other	RWPM														
Standards, or Other	MSRPH														
Inspection Location	Main Track	Yard	Stat	ion (220	RTA Facility	FTA Office	T	At-grad	e Tu	nnel	Elev	vated	N/A	
	х							Track Type	x						
line(a)	Kline	Track		tun als f	Chai		Chain Marker		From				То		
Line(s)	K-Line	Numb	er	track 2 and/o		and/or St	d/or Station(s) East Falls Chu			ırch (K05) Balls			llston (KO4)		
	Head	ead Car Number Number c			of Cars	Equip		N/A							
Vehicles		N/A	N/A	Ą											
Description	FWSO I	nspectors rece	eived a	a job safe	ty briefin	g from the	e roadway w	orker in	Number of Defects Recommended Finding? Remedial Action Required?					0	
		RWIC) at East		•	, .		•							No	
		covered the t working limit		•		• •								No	
		0			, -			, ,	Recomm	ended Re	einspec	tion?		No	

Inspector in Charge - Signature	DAM ANTHONY GIOVANDO	Digitally signed by ADAM ANTHONY GIOVANDO DN: c=US, o=U.S. Government, ou=FRA FRAFtWort ANTHONY GIOVANDO Date: 2017.08.01 14:59:53 -05'00'	Date hTX, ou=DOT FRAFtWorthTX, cn=ADAM
Inspector in Charge – Name	Inspection Team		
Adam Giovando	Bob Maniuszko, Lee Emard, Mike Vitale		



Remedial Action	equip		nearest hospital, a check of personal protective vay worker protection (RWP) ID. during the briefing.				
Inspection Activity #	2	Inspection Subject	Remedial Action Follow Up	Activity Code	TRK	WI	PI

Inspection Activity #	2	Inspe	ection Sub	ject	Remed	ial Actio	on Follow U	р		Activity Co	de	TR	К	WI	PI		
Job Briefing Employee Name/Title	TRST 6126						ompanied ector?	Yes	Out Brief Conducted	Yes	Yes Time		1000- 1300 Outsic Shift		No		
Related Reports	20170510-WMATA-WP-1 20160731-WMATA-RPM-1 Related CAPS / Findings Remedia									tion: 905, 906, 907, 1304							
	Ref				Rule or S	SOP	Other / T	itle		Checkl	ist Reference						
Related Rules, SOPs,	RWP	M															
Standards, or Other	MSRI	РН															
Inspection Location	Ma Tra	in	Yard	Stat	ion	осс	RTA Facility	FTA Office	Track Type	At-grade	e Tu	nnel	Eleva	ted	N/A		
inspection Location	x								паск туре	х							
Line(s)	K-Lin	e	Track Numbe	ar	track 2	2	Chain Ma and/or St		Fast Falls Chu	From		Dellet		То			
		d Car I		-	Number	of Corre			East Falls Chu	ITCH (KUS)		Ballst	on (K04)				
Vehicles	пеа	N/A	Number		Number		Equip	ment	N/A								
	FWS			orme			ion on track	two of the I	K-Line	Number	of Defect	te.			6		
	betw	een Ea	ist Falls Ch	urch (K05) and	Ballsto	n (K04) to ii		conditions and	Recomm					Yes		
	follow	follow up on previously-issued remedial actions.									Action I		d?	Yes			
Description	 TRST 1000 Manual, Table 5-21: Loose bolt in joint bar at K2 394+00 (Yellow condition). TRST 1000 Manual, Table 5-21: Loose bolt in joint bar at K2 385+00 (Yellow condition). TRST 1000 Manual, Table 5-21: Two loose bolts and one wrong size bolt in joint bar at K2 373+00 (Yellow condition). TRST 1000 Manual, Table 5-21: Loose bolt in joint bar at K2 345+00 (Yellow condition). TRST 1000 Manual, 13.5.2: Broken third rail anchor at K2 355+20. TRST 1000 Manual, 10.17.4.1: Relay rail stored within 4 inches of third rail. Remedial action for this defect is addressed in WMATA's approach to Remedial Action #1304. The following remedial actions were verified as complete: Remedial Action #905: WMATA has removed oxygen cylinders at K2 385+30. Remedial Action #906: WMATA has removed oxygen cylinder at K2 383+00. Remedial Action #907: WMATA has removed diesel canisters at K2 397+20. 											Yes					
Remedial Action	To ac	chieve c • V • V • V	WMATA m WMATA m WMATA m	e with ust tig ust tig ust tig ust tig	WMATA ghten bol ghten bol ghten and ghten bol	A's requ Its in th Its in th d install Its in th	e joint bar le e joint bar le proper boli	ocated at K2	385+00. t bar located at	K2 373+00.				1			