



Inspection Form

Form WMSC-IR-1

Washington Metrorail Safety Commission

Agency/Department Information

Inspection Date	YYYY/MM/DD 2024/01/25	Report Number	20240124-WMSC-AJF-1
Rail Agency Name	Washington Metropolitan Area Transit Authority	Rail Agency Department	Name
Rail Agency Department	WMATA	Contact Information	
Inspection Location	<p>ATO Marker Coil Inspection ATC 1025 January 24, 2024, WMSC Inspector performed an ATO Marker Coil field observation at Fort Totten (E06), TCR #126, with ATC Field Personnel. The Purpose of this PMI is to verify that the resonant frequency peak for each ATO marker is within acceptable limits. Prior to starting RWIC 2398 performed a Job Safety Briefing, which included the hazards, working limits and AMF Protection from AMF 2485. WMSC Inspector inspected tools and equipment with ATC 2426 & ATC 2415 and checked that the calibration was up to date on the marker coil test unit T1677S. WMSC Inspector, ATC 2426 & ATC 2415 Proceeded walking along the wayside during a joint PMI (ATC 1012A-1) being performed by ATC 2426 & ATC 2415. This ATC Team started performing steps 1.1 - 1.4 of ATC 1025. WMSC Inspector observed ATC Personnel place marker coil test on top of the marker coil and verified that the frequency was within the peak limits. WMSC Inspector observed ATC Personnel record the marker coil frequency's of F3 & F8 using ATC 1025 Table 1 Wayside Static Test limits. WMSC Inspector verified F4 20" sticker was legible and placed on the correct side of the marker coil cover. WMSC Inspector observed ATC Personnel perform section 2, maker placement tolerance and offset values, 2.1 - 2.4, verifying that F1 & F9 frequency numbers were within ATC 1025 table 1 Wayside Static Test limits and verifying they were inside not less than 4 feet nor more than 8 feet apart. Testing concluded at approximately 11:49 and WMSC Inspector and ATC Personnel regrouped back at TCR #126. WMSC Inspector gathered pictures of the final testing forms and procedures and verified that the right marker coils were attached to the right chain markers before departure.</p>		

Inspection Summary

Inspection Activity #	1
Activity Code	STC-RI-PI
Inspection Units	1
Inspection Subunits	1
Defects (Number)	
Recommended Finding	Yes
Remedial Action Required¹	No
Recommended Reinspection	No

Activity Summaries

Inspection Activity #	1	Inspection Subject	ATO Marker Coil PMI Inspection			Activity Code		STC-RI-PI			
Job Briefing Employee Name/Title	RWIC/ATC 2398 Cell #267-949-6840	Accompanied Inspector?	No	Out Brief Conducted	Yes	Time	10:00 AM	Outside Shift	No		
Related Reports	ATO/ADO	Related CAPS / Findings			N/A						
Related Rules, SOPs, Standards, or Other	Ref	Rule or SOP		Standard	Other / Title			Checklist Reference			
	Reference Documents - Metro Safety Rules and Procedures Handbook Rules (MSRPH Rules) - Operations Administrative Policies (OAP) 204-01 and 113-23 - TCR location Book-of-Plans (BOP) - ATC-2000 - System Integrity Maintenance Practice - Current ATO Test Set Operations and Maintenance (O&M) Manual - CENV Marker Testing, ALSTOM WTP 2.7 C	Metro Safety Rules and Procedures Handbook Rules (MSRPH Rules)		ATC 1000 Procedures				ATC-2000 - System Integrity Maintenance Practice			
Inspection Location	Main Track	Yard	Station	OCC	RTA Facility	WMSC Office	Track Type	At-grade	Tunnel	Elevated	N/A
	X								X		
	ATO Marker Coil Inspection ATC 1025 January 24, 2024, WMSC Inspector performed an ATO Marker Coil field observation at Fort Totten (E06), TCR #126, with ATC Field Personnel. The Purpose of this PMI is to verify that the resonant frequency peak for each ATO marker is within acceptable limits. Prior to starting RWIC 2398 performed a Job Safety Briefing, which included the hazards, working limits and AMF Protection from AMF 2485. WMSC Inspector inspected tools and equipment with ATC 2426 & ATC 2415 and checked that the calibration was					From			To		



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<p>Line(s) & Track Number</p>	<p>up to date on the marker coil test unit T1677S. WMSC Inspector, ATC 2426 & ATC 2415 Proceeded walking along the wayside during a joint PMI (ATC 1012A-1) being performed by ATC 2426 & ATC 2415. This ATC Team started performing steps 1.1 - 1.4 of ATC 1025. WMSC Inspector observed ATC Personnel place marker coil test on top of the marker coil and verified that the frequency was within the peak limits. WMSC Inspector observed ATC Personnel record the marker coil frequency's of F3 & F8 using ATC 1025 Table 1 Wayside Static Test limits. WMSC Inspector verified F4 20" sticker was legible and placed on the correct side of the marker coil cover. WMSC Inspector observed ATC Personnel perform section 2, maker placement tolerance and offset values, 2.1 - 2.4, verifying that F1 & F9 frequency numbers where within ATC 1025 table 1 Wayside Static Test limits and verifying they were inside not less than 4 feet nor more than 8 feet apart. Testing concluded at approximately 11:49 and WMSC Inspector and ATC Personnel regrouped back at TCR #126. WMSC Inspector gathered pictures of the final testing forms and procedures and verified that the right marker coils were attached to the right chain markers before departure.</p>		<p>Chain Marker and/or Station(s)</p>	<p>E2 143+00</p>	<p>E2 215+00</p>
<p>Vehicles</p>	<p>Head Car Number</p> <p>N/A</p>	<p>Number of Cars</p> <p>N/A</p>	<p>Equipment</p>	<p>Tools and Equipment All electronic equipment used to make precision measurements during the performance of this procedure must be properly calibrated (see OAP 204-01 and 113-23). Record the calibration information (Model, Serial Number, and Date Due for Calibration) in the space provided on the associated datasheet. -ATCM required hand tools -High-Temperature Slippery UHMW Polyethylene, FDA Compliant Bar, 1-1/2" Thick, 1-1/2" Wide -Marker Coil Test Set</p>	
<p>Description</p>	<p>ATO Marker Coil Inspection ATC 1025 January 24, 2024, WMSC Inspector performed an ATO Marker Coil field observation at Fort Totten (E06), TCR #126, with ATC Field Personnel. The Purpose of this PMI is to verify that the resonant frequency peak for each ATO marker is within acceptable limits. Prior to starting RWIC 2398 performed a Job Safety Briefing, which included the hazards, working limits and AMF Protection from AMF 2485. WMSC Inspector inspected tools and equipment with ATC 2426 & ATC 2415 and checked that the calibration was up to date on the marker coil test unit T1677S. WMSC Inspector, ATC 2426 & ATC 2415 Proceeded walking along the wayside during a joint PMI (ATC 1012A-1) being performed and started performing steps 1.1 - 1.4 of ATC 1025. WMSC Inspector observed ATC Personnel place marker coil test on top of the marker coil and verified that the frequency was within the peak limits. WMSC Inspector observed ATC Personnel record the marker coil frequencies of F3 & F8 using ATC 1025 Table 1 Wayside Static Test limits. WMSC Inspector verified F4 20" sticker was legible and placed on the correct side of the marker coil cover. WMSC Inspector observed ATC Personnel perform section 2, maker placement tolerance and offset values, 2.1 - 2.4, verifying that F1 & F9 frequency numbers where within ATC 1025 table 1 Wayside Static Test limits and verifying they were inside not less than 4 feet nor more than 8 feet apart. Testing concluded at approximately 11:49 and WMSC Inspector and ATC Personnel regrouped back at TCR #126. WMSC Inspector gathered pictures of the final testing forms and procedures and verified that the right marker coils were attached to the right chain markers before departure.</p>			<p>Number of Defects</p>	
				<p>Recommended Finding?</p>	<p>Yes</p>
				<p>Remedial Action Required?</p>	<p>No</p>
				<p>Recommended Reinspection?</p>	<p>No</p>
<p>Remedial Action</p>					



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Photos:
OLD_COIL.



3_5922.jpg





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Form WMSC-IR-1

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IMG_5930.jpg



IMG_04901.jpg





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IMG_5947.jpg





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Marker_Coil_laying_in_water_and_mud.jpg



¹ The rail transit agency must provide WMSC with the necessary evidence (e.g. maintenance work order system records, photos, documentation, records, data, or other evidence) to close out the Remedial Action. Closeout of Remedial Actions may also be subject to ongoing WMSC verification inspections to ensure corrections are sufficient and effective.

Inspector in Charge's Signature		Date 2024/01/25
Inspector in Charge's Name Allen Freeman	Inspection Team N/A	