RMCO ANNUAL COMPLIANCE REPORT FOR 2022

REGULATORY MONITOR AND COMPLIANCE OFFICER

Transit Commission Meeting

April 13th, 2023

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Regulatory Monitor and Compliance Officer

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RMCO Background

- > RMCO for City of Ottawa since March 2018:
 - ✓ Started regulatory compliance monitoring in September 2019 (after revenue service)
- > Experience:
 - ✓ More than 40 years in the railway sector
 - ✓ Including passenger and commuter service
 - ✓ Held numerous operational and staff positions
 - ✓ Retired from CN Rail in 2017 as Vice President of Safety and Sustainability
- > Education:
 - ✓ Masters in Engineering and MBA from McGill university
- Expertise:
 - ✓ Safety, Operations, Regulations, Auditing / Monitoring, Safety Management Systems, Safety Culture
- Member of IIA (Institute of Internal Auditors)

RMCO Scope / Mandate

- > RMCO position created as part of Delegation Agreement
- > RMCO Mandate / Scope:
 - Monitoring of regulatory compliance for safety and security;
 - Confederation line only;
 - Encompassing OC Transpo and Contractors;
 - Monitoring started after revenue service;
 - RMCO does not assess:
 - Safety or risks;
 - Adequacy of Regulations, equipment or technology;
 - Contractor competence.
- RMCO monitoring represents one of several layers of oversight in the City's Regulatory Regime

Regulatory Monitoring Approach

- ➤ Regulatory Monitoring Approach:
 - Monitoring compliance relative to City LRT Regulations (i.e. 'City Manager Designation')
 - ✓ OC Tranpo has regulatory responsibilities, whereas contractors have contractual responsibilities
 - Risk-based selection of areas to monitor
 - Monitoring is structured and transparent:
 - ✓ Advanced notification;
 - ✓ Monitoring procedures;
 - ✓ Fact and evidence-based assessment of compliance

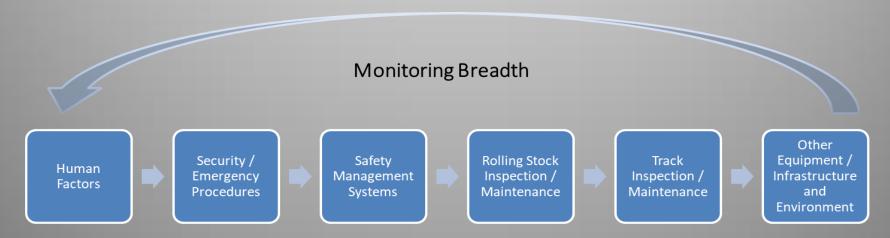


Areas Monitored in 2022

> Areas monitored in 2022:

AREAS MONITORED	Period
Inspections of Track, LRV and Catenary (revisited following 2020 monitoring)	Q2-Q3 2022
Security Management System	Q4 2022

➤ All 6 risk categories monitored since revenue service:



RMCO Monitoring Performed Since RSA - Recap

> Area monitored - fall 2019:

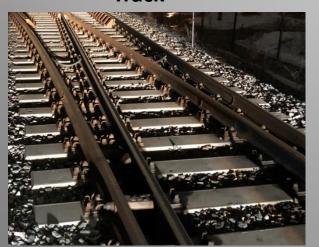
Training / qualification of employees involved in movement of LRV's / Trains





> Areas monitored in 2020:

Track



Light Rail Vehicles



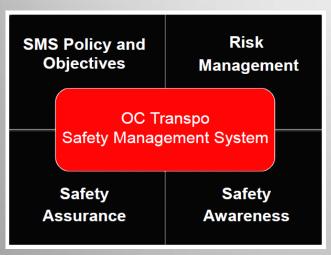
Catenary



Overview of RMCO Monitoring Performed Since RSA (cont'd)

Areas monitored in 2021:

Safety Management System



Emergency Management Processes



- ✓ Safety Management System (SMS) refers to a systematic approach for managing safety through policies, objectives, initiatives, risk management and safety assurance
- ✓ Emergency Management Processes provide procedures and preparation for handling sudden or unexpected situations effectively

Overview of RMCO Monitoring Performed Since RSA (cont'd)

Areas monitored in 2022:

A) Revisited inspections of track, LRV and catenary where gaps were identified in 2020:

Track



Light Rail Vehicles



Catenary



B) Security Management System:

Security Management System OCT-\$230-04-PGI Revision: V 1.5 Effective Date: 202						
Security	Management Sy (SeMS) Program	stem				
Document #:	OCT-S230-04-PGM					
Revision:	V 1.5					
Revision Date:	2022-10-24					

RMCO Activities - 2022

RMCO Activities -2022

Regulatory Monitoring:

- 1) Monitored OC Transpo and RTM 2 key areas:
 - Inspections of track, LRV and OCS (revisited)
 - Security Management System
- 2) Risk-based analysis
- 3) Monitoring procedures
- 4) Review / analysis of documents and records, interviews and field visits

Remedial Actions:

- Analysis, engagements with OCT and RTM, ongoing monitoring and support OCT to drive resolution

Reporting:

- 1) Quarterly City Manager meetings / updates
- 2) Annual Compliance Report

Regulatory Compliance Findings for OC Transpo – Summary (refer to next slides for details):

12 Elements Monitored										
Adoption / Implementation	Direction	Oversight	Records							
3 Elements Compliant	3 Elements Compliant	3 Elements Mostly Compliant	3 Elements Compliant							

Comments:

- 9 elements compliant and 3 mostly compliant (i.e. Oversight)
- Although OC Transpo Oversight is substantive, it needs to cover contractor employee training in accordance with Program requirements

Actions Taken to Address Findings:

 OC Transpo enhanced 2023 Oversight Plan to monitor the training of contractor employees.

Monitoring Findings for OC Transpo:

ITEM	REFERENCE	ELEMENT	OC TRANSPO - COMPLIANCE ASSESSMENT	NOTES
1A		TRACK	COMPLIANT	KEY DOCUMENTS SUBSTANTIATING MONITORING FINDING: 1) MAINTENANCE & REHABILITATION PLAN RTM-MC-PLN-042, SECTION 13.4.3 'TRACKWORK'. 2) TRACK SAFETY AND INSPECTION RULES RTM-ENG-RUL-132, SECTION 4 TRAINING. 3) ALSTOM ASSET MANAGEMENT PLAN - APPDX B4 'GUIDEWAY MAINTENANCE'. 4) MAINTENANCE & REHABILITATION PLAN RTM-MC-PLN-042, SECTION 8 'TRAINING AND QUALIFICATION OF PERSONNEL'.
1B	PROGRAM ADOPTION / IMPLEMENTATION	LRV	COMPLIANT	KEY DOCUMENTS SUBSTANTIATING MONITORING FINDING: 1) MAINTENANCE & REHABILITATION PLAN RTM-MC-PLN-042: SECTION 13.1 "VEHICLE MAINTENANCE'; SECTION 8 'TRAINING AND QUALIFICATION OF PERSONNEL'. 2) ANNUAL PREVENTATIVE MAINTENANCE PLAN RTM-MC-PLN-641, SECTION 6.1 "VEHICLE MAINTENANCE". 3) ALSTOM ASSET MANAGEMENT PLAN - APPDX B1 "MAINTENANCE FOR ROLLING STOCK LRV".
1C	CATENARY		COMPLIANT	KEY DOCUMENTS SUBSTANTIATING MONITORING FINDING: 1) MAINTENANCE & REHABILITATION PLAN RTM-MC-PLN-042: SECTION 13.4.3.2 "OCS MAINTENANCE"; SECTION 8 'TRAINING AND QUALIFICATION OF PERSONNEL". 2) ALSTOM ASSET MANAGEMENT PLAN - APPDX B6 'MAINTENANCE FOR OCS - OVERHEAD CATENARY SYSTEM'.

COMPLIANCE SCALE:	C = COMPLIANT
	MC = MOSTLY COMPLIANT
	PC = PARTIALLY COMPLIANT
	NC = NOT COMPLIANT

Compliant: means that monitoring activities have identified compliant results in accordance with regulatory requirements and Program documents. **Mostly Compliant** means that monitoring activities have identified predominantly compliant results, with some exceptions. **Partially Compliant** means that monitoring activities have identified mixed results, with some compliant areas, as well as non-compliant areas.

Not Compliant means that monitoring activities have identified either fully non-compliant results or mostly non-compliant results.

Monitoring Findings for OC Transpo (cont'd):

2A		TRACK	COMPLIANT	KEY DOCUMENTS SUBSTANTIATING MONITORING FINDING: 1) P.A. SCHED. 15-3, APPDX A, ATTACH 4, TRACK MAINTENANCE SERVICES. 2) P.A. SCHED. 15-3, APPDX B 'ASSET PRESERVATION' - COVERS TRACK (P. 167), CATENARY (P.170), LRV (P.174). 3) P.A. SCHED. 15-3, APPDX A, ARTICLES 1,2, MAINT. PERFORMANCE; SECTION 1.4 'MAINT. AND REHAB PLAN', SECTION 1.6 'COMPLIANCE' & SECTIONS 1.7, 1.8 'RECORDS'. 4) P.A. SCHED. 15-3, APPDX A, ATTACHM 12, SECTION 1 "MAINTENANCE RECORDS AND REPORTING". 5) P.A. SCHED. 15-3, APPDX A, MAINTENANCE PERFORMANCE, SECTION 1.3(G) 'TRAINING'. 6) DIRECTION ALSO PROVIDED THROUGH OC TRANSPO OVERSIGHT PROCESS AND ASSOCIATED CONTRACTUAL CORRESPONDENCE.
2В	PROGRAM DIRECTION	LRV	COMPLIANT	KEY DOCUMENTS SUBSTANTIATING MONITORING FINDING: 1) P.A. SCHED. 15-3, APPDX A, ATTACH 5, VEHICLE MAINTENANCE SERVICES. 2) P.A. SCHED. 15-3, APPDX B 'ASSET PRESERVATION' - COVERS TRACK (P. 167), CATENARY (P.170), LRV (P.174) 3) P.A. SCHED. 15-3, APPDX A, ARTICLES 1,2, MAINTENANCE PERF.; SECTION 1.4 'MAINT. AND REHAB PLAN', SECTION 1.6 'COMPLIANCE' AND SECTION 1.7, 1.8 'RECORDS' 4) P.A. SCHED. 15-3, APPDX A, ATTACH 12, SECTION 1 "MAINTENANCE RECORDS AND REPORTING". 5) P.A. SCHED. 15-3, APPDX A, MAINTENANCE PERFORMANCE, SECTION 1.3(G) 'TRAINING'. 6) DIRECTION ALSO PROVIDED THROUGH OC TRANSPO OVERSIGHT PROCESS AND ASSOCIATED CONTRACTUAL CORRESPONDENCE.
2C		CATENARY	COMPLIANT	KEY DOCUMENTS SUBSTANTIATING MONITORING FINDING: 1) P.A. SCHED. 15-3, APPDX B 'ASSET PRESERVATION' - COVERS TRACK (P. 167), CATENARY (P.170), LRV (P.174). 2) P.A. SCHED. 15-3, APPDX A, ARTICLES 1,2, MAINT. PERFORMANCE; SECTION 1.4 'MAINT. AND REHAB PLAN', SECTION 1.6 'COMPLIANCE' AND SECTION 1.7, 1.8 'RECORDS'. 3) P.A. SCHED. 15-3, APPDX A, ATTACHM 12, SECTION 1 "MAINTENANCE RECORDS AND REPORTING". 4) P.A. SCHED. 15-3, APPDX A, MAINTENANCE PERFORMANCE, SECTION 1.3(G) 'TRAINING'. 5) DIRECTION ALSO PROVIDED THROUGH OC TRANSPO OVERSIGHT PROCESS AND ASSOCIATED CONTRACTUAL CORRESPONDENCE.

Monitoring Findings for OC Transpo (cont'd):

3A	PROGRAM OVERSIGHT	TRACK	MOSTLY COMPLIANT	KEY DOCUMENTS SUBSTANTIATING MONITORING FINDING: 1) OC TRANSPO LINE 1 OVERSIGHT PLAN 2022 (SFRG-OTRC-001-PLN) 2) LINE 1 OVERSIGHT OVERSIGHT SCHEDULES
3B		LRV	MOSTLY COMPLIANT	SAME AS 3A
3C		CATENARY	MOSTLY COMPLIANT	SAME AS 3A
4A	TRACK PROGRAM RECORDS		COMPLIANT	KEY DOCUMENTS / RECORDS SUBSTANTIATING MONITORING FINDING: 1) LINE 1 OVERSIGHT SCHEDULES. 2) OVERSIGHT MONTHLY REPORTS / SUMMARIES. 3) RECORDS ENTERED AND MAINTAINED IN INFORMATION SYSTEM (CLEVERCAD). 4) OVERSIGHT FINDINGS RECORDED AND TRACKED IN SPREADSHEETS. COMMENTS: OC TRANSPO HAS SYSTEM IN PLACE TO MAINTAIN OVERSIGHT RECORDS. THIS INCLUDES ENTERING OVERSIGHT ACTIVITIES AND RECORDING RELEVANT FINDINGS.
4B		LRV	COMPLIANT	SAME AS 4A
4C	CATENARY		COMPLIANT	SAME AS 4A

- Conformance* Findings for <u>RTM</u> Summary (refer to Tables in next slides):
 - 10 elements monitored relative to applicable Programs:
 - √ 3 Conformant
 - ✓ 1 Mostly Conformant
 - √ 6 Partially Conformant
 - Key Conformance Gaps:
 - ✓ Some inspection records missing for track and catenary for period monitored
 - ✓ Some LRV inspections performed beyond allowable time tolerance
 - ✓ Training delivery incomplete for all 3 employee types involved in inspections
 - ✓ Oversight plan formalized after period monitored
- > Actions Taken to Address Findings:
 - OC Transpo requested formal remedial actions from RTM
 - Remedial actions under review and the subject of quarterly meetings as well as a formal tracking table (refer to next slides)

^{*} The term 'Conformant' is used for RTG /RTM to reflect contractual responsibilities, rather than regulatory obligations

Monitoring Findings for RTM / Alstom:

ITEM	REFERENCE	ELEMENT	RTM - CONFORMANCE	NOTES
1A		TRACK		THE FOLLOWING DOCUMENTS WERE PROVIDED BY RTM: 1) TRACK SAFETY AND INSPECTION RULES (ENG-RUL-132); 2) MAINTENANCE AND REHABILITATION PLAN (RTM-MC-PLN-042); 3) ASSET MANAGEMENT PLAN ENG-SV-OTT-PRO-001 (ALSTOM); 4) 5 ALSTOM WMS PROCEDURES SPECIFIC TO TRACK
1B	PROGRAM ADOPTION	LRV	CONFORMANT	THE FOLLOWING DOCUMENTS WERE PROVIDED BY RTM: I) MAINTENANCE AND REHABILITATION PLAN (RTM-MC-PLN-042); 2) ASSET MANAGEMENT PLAN ENG-SV-OTT-PRO-001 (ALSTOM); 3) 36 ALSTOM WMS PROCEDURES SPECIFIC TO LRV
1C		CATENARY	CONFORMANT	THE FOLLOWING DOCUMENTS WERE PROVIDED BY RTM: I) MAINTENANCE AND REHABILITATION PLAN (RTM-MC-PLN-042); 2) ASSET MANAGEMENT PLAN ENG-SV-OTT-PRO-001 (ALSTOM) 3) 10 ALSTOM WMS PROCEDURES SPECIFIC TO CATENARY
2	PROGRAM DIRECTION	TRACK, LRV AND CATENARY	N/A	RTM PROVIDED CONFIRMATION THAT RELEVANT PROJECT AGREEMENT PARTS HAVE BEEN CONVEYED TO THEIR SUBCONTRACTORS. HOWEVER, AN OBJECTIVE ASSESSMENT OF THIS AREA WOULD REQUIRE THE REVIEW OF CONTRACTUAL MATERIAL WHICH IS LARGELY CONFIDENTIAL.

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require timely attention.

Not Conformant: means that monitoring activities have identified either full or serious non-conformance, or many non-conformances at the same time or on a repeated or unrectified basis.

Monitoring Findings for RTM / Alstom (cont'd):

3A			TRAINING - PARTIAI CONFORMANT	1) TRAINING MATRIX AND TRAINING RECORDS PROVIDED; 2) HOWEVER, A REVIEW OF TRAINING RECORDS (RELATIVE TO TRAINING MATRIX) FOR A SAMPLE OF EMPLOYEES SHOWS THAT 7 OF 9 GUIDEWAY TECHNICIANS ARE MISSING SOME MANDATORY TRAINING COURSES
3В		TRACK	EXECUTION OF TRA INSPECTIONS - PARTI CONFORMANT	
3C		LRV	TRAINING - PARTIAL CONFORMANT	1) TRAINING MATRIX AND TRAINING RECORDS PROVIDED; 2) HOWEVER, A REVIEW OF TRAINING RECORDS (RELATIVE TO TRAINING MATRIX) FOR A SAMPLE OF EMPLOYEES SHOWS THAT 7 OF 9 MAINTENANCE VEHICLE TECHS ARE MISSING SOME MANDATORY TRAINING
3D	PROGRAM IMPLEMENTATION		EXECUTION OF LR INSPECTIONS - MOS CONFORMANT	
3E			TRAINING - PARTIAL CONFORMANT	1) TRAINING MATRIX AND TRAINING RECORDS PROVIDED; 2) HOWEVER, A REVIEW OF TRAINING RECORDS (RELATIVE TO TRAINING MATRIX) FOR A SAMPLE OF EMPLOYEES SHOWS THAT 2 OF 5 POWER TECHS ARE MISSING SOME MANDATORY TRAINING.
3F		CATENARY	EXECUTION OF CATEN INSPECTIONS - PARTI CONFORMANT	h) MISSING 5 OF 12 RECORDS FOR 6M OCS TENSIONING (WMS002).

Monitoring Findings for RTM / Alstom (cont'd):

4	PROGRAM OVERSIGHT	TRACK, LRV AND CATENARY	OVERSIGHT - PARTIALLY CONFORMANT	1) RTM OVERSIGHT PLAN (RTM-OP-PLN-739) IS DATED APRIL 29, 2022 WHICH IS AFTER THE PERIOD MONITORED BY THE RMCO (Q4 2021 - Q1 2022) IN THIS SEGMENT. 2) OBJECTIVE EVIDENCE OBTAINED DURING THE MONITORING INDICATES THAT RTM OVERSIGHT WAS PERFORMED DURING THE PERIOD MONITORED, ALTHOUGH NO SPECIFIC PLAN / PROCESS WAS PROVIDED. FORMAL OVERSIGHT RECORDS WERE NOT PROVIDED BY RTM FOR THE PERIOD MONITORED.

Regulatory Compliance Findings for OC Transpo - Summary (refer to next slides for details):

	17 Elements Monitored											
Adoption	Implementation	Direction	Oversight	Records								
1 Element	7 Elements Compliant	2 Elements	3 Elements Compliant	2 Elements								
Compliant	1 Element Mostly Compliant	Compliant	1 Element Mostly Compliant	Compliant								

Comments:

- 15 of 17 elements monitored are compliant:
 - Oversight is mostly compliant: OCT Oversight is substantive but needs to cover contractor SeMS Program Implementation
 - Threat and Vulnerability Analysis (TVA) is mostly compliant: required every 3 years

> Actions Taken to Address Findings:

 OC Transpo enhanced 2023 Oversight Plan to monitor contractor SeMS Program implementation and performed TVA in 2022.

Monitoring Findings for OC Transpo:

ITEM	REFERENCE	ELEMENT	OC TRANSPO	NOTES
1A	PROGRAM ADOPTION	SeMS MANUAL DEVELOPED / ADOPTED	COMPLIANT	OC TRANSPO SeMS MANUAL PROVIDED - DATED 2022 AND INCLUDES APPENDIX B (SPECIFIC SECURITY PLAN).
2A	PROGRAM IMPLEMENTATION	COMMUNICATION OF PROGRAM AND ITS REQUIREMENTS	COMPLIANT	COMMUNICATION DOCUMENTS PROVIDED
2В		SECURITY MGMT POLICY AVAILABLE 2022	COMPLIANT	SeMS POLICY AVAILABLE IN 2022 OC TRANSPO SeMS MANUAL
2C		OBJECTIVES / INITIATIVES AVAILABLE FOR 2022	COMPLIANT	OBJECTIVES AND INITIATIVES AVAILABLE IN: 1) SeMS PROGRAM MANUAL SECTION 2.4 (A1); 2) SeMS APPENDIX B SECTION 7 (A2)
2D		TVA	MOSTLY COMPLIANT	TVA's PERFORMED FOR LINE 1 IN 2015 AND 2022. REQUIREMENT EVERY 3 YEARS AS PER SEMS SECTIONS 1.4 AND 4.1.1.
2E		TRAINING FOR CITY OFFICERS (SPECIAL CONSTABLES, MANAGERS etc)	COMPLIANT	RECORDS PROVIDED TO SUBSTANTIATE TRAINING DELIVERY FOR OFFICERS
2F		TRAINING AWARENESS FOR ALL CITY EMPLOYEES (SeMS SECTION 8.3.1)	COMPLIANT	DOCUMENTS AND RECORDS PROVIDED TO SUBSTANTIATE TRAINING AWARENESS DELIVERY FOR EMPLOYEES
2G		DRILLS / EXERCISES (SeMS SECTION 9)	COMPLIANT	RECORDS PROVIDED TO SUBSTANTIATE DRILLS / EXERCISES PERFORMED AND PLANNED
2Н		TABLE TOP EXERCISES ANNUALLY (SeMS SECTION 9.4.1) AND FULL SCALE EXERCISES EVERY 3 YEARS (SECTION 9.4.2)	COMPLIANT	EVIDENCE PROVIDED OF TABLE TOP EXERCISE DONE IN 2021 AND 2022. EVIDENCE PROVIDED OF FULL SCALE EXERCISES PERFORMED AND PLANNED.

COMPLIANCE SCALE:

C = COMPLIANT

MC = MOSTLY COMPLIANT

PC = PARTIALLY COMPLIANT

NC = NOT COMPLIANT

Compliant: means that monitoring activities have identified compliant results in accordance with regulatory requirements and Program documents. **Mostly Compliant** means that monitoring activities have identified predominantly compliant results, with some exceptions.

Partially Compliant means that monitoring activities have identified mixed results, with some compliant areas, as well as non-compliant areas. **Not Compliant** means that monitoring activities have identified either fully non-compliant results or mostly non-compliant results.

Monitoring Findings for OC Transpo (cont'd):

за	PROGRAM DIRECTION	INTERNAL DIRECTION PROVIDED	COMPLIANT	EVIDENCE OF INTERNAL DIRECTION PROVIDED, INCLUDING TRAINING, COMMUNIQUES AND CORRESPONDENCE
3В		DIRECTION TO CONTRACTORS PROVIDED	COMPLIANT	EVIDENCE OF DIRECTION THROUGH SPECIFIC REQUIREMENTS IN PROJECT AGREEMENT, AS WELL AS OC TRANSPO CORRESPONDENCE
4A	PROGRAM OVERSIGHT	MONITORING PLAN / PROCESS AVAILABLE	COMPLIANT	OC TRANSPO PROVIDED SUBSTANTIVE OVERSIGHT PLAN WITH ANNEXES DETAILING MONITORING ACTIVITIES
48		OVERSIGHT INTERNAL	COMPLIANT	EVIDENCE OF INTERNAL OVERSIGHT PROVIDED, INCLUDING STATISTICS, TRAINING, DRILLS AND SeMS COMMITTEE MEETINGS
4C		OVERSIGHT CONTRACTORS - CONTRACTUAL	COMPLIANT	EVIDENCE PROVIDED OF CONTRACTUAL OVERSIGHT THROUGH CORRESPONDENCES FROM OC TRANSPO TO RTG
4D		OVERSIGHT CONTRACTORS - PROGRAM IMPLEMENTATION (e.g. IMPLEMENTATION - TRAINING, READINESS etc)	MOSTLY COMPLIANT	ALTHOUGH OC TRANSPO HAS A SUBSTANTIVE OVERSIGHT PLAN WHICH ENCOMPASSES INTERNAL SEMS PROGRAM ACTIVITIES AND RTM CONTRACTUAL OVERSIGHT, THERE IS NO EVIDENCE OF PROGRAM OVERSIGHT REQUIRED TO MONITOR CONTRACTOR SEMS IMPLEMENTATION (E.G. TRAINING, BACKGROUND CHECKS, DRILLS, SEMS UPDATED ETC.). THIS IS CORROBORATED BY CONTRACTOR MONITORING WHICH IDENTIFIED MIXED CONFORMANCE FINDINGS.
5A	PROGRAM RECORDS	TRAINING RECORDS (INTERNAL OCT)	COMPLIANT	TRAINING RECORDS PROVIDED.
5B		OCT RECORDS RELATIVE TO OVERSIGHT	COMPLIANT	RECORDS PROVIDED RELATIVE TO STATISTICS, DRILLS, EVALUATIONS / DRILLS etc.

- > Conformance* Findings for RTM (refer to Tables in next slides):
 - 12 elements monitored relative to applicable Program Requirements (refer to next slides):
 - √ 4 Conformant
 - √ 5 Mostly Conformant
 - ✓ 2 Partially Conformant
 - ✓ 1 Not Conformant
 - Key Conformance Gaps:
 - ✓ Employee security verifications not being performed
 - ✓ Security Plan annual reviews not being performed
 - ✓ Direction to subcontractors incomplete
 - ✓ Oversight incomplete
- Actions Taken to Address Findings:
 - OC Transpo requested formal remedial actions from RTM
 - Remedial actions under review and the subject of quarterly meetings as well as a formal tracking table (refer to next slides)

^{*} The term 'Conformant' is used for RTG /RTM to reflect contractual responsibilities, rather than regulatory obligations

Monitoring Findings for RTM:

ITEM	REFERENCE	ELEMENT	RTM	NOTES	
1A	PROGRAM ADOPTION	SeMS MANUAL DEVELOPED / ADOPTED	CONFORMANT	RTM HAS SECURITY MANAGEMENT PLAN WHICH APPEARS TO BE ALIGNED WITH P.A. REQUIREMENTS.	

CONF	CONFORMANCE SCALE:						
	CONFORMANT	Conformant: means that monitoring activities have not identified any non-conformances realtive to Program requirements by Contractor.					
	MOSTLY CONFORMANT	Mostly Conformant: means that monitoring activities have only identified a limited number of relatively minor non-conformances					
		capable of being easily remedied in normal course.					
	PARTIALLY CONFORMANT	Partially Conformant: means that monitoring activities have identified more regular and/or more serious non-conformances that					
		require timely attention.					
	NOT CONFORMANT	Not Conformant: means that monitoring activities have identified either full or serious non-conformance, or many non-conformances					
l '		at the same time or on a repeated or unrectified basis.					

Monitoring Findings for RTM (cont'd):

2A	PROGRAM IMPLEMENTATION	ANNUAL REVIEWS OF SECURIY MANAGEMENT PLAN PARTIALLY CONFORMANT		RTM SEMP REVIEWS (REQUIRED AS PER RTM SEMP 1.6) DO NOT APPEAR TO BE DONE ANNUALLY.
2В		SECURITY PROCEDURES	CONFORMANT	RTM PROVIDED SEVERAL SECURITY-RELATED PROCEDURES.
2C		SECURITY TRAINING	MOSTLY CONFORMANT	THE TRAINING MATERIAL PROVIDES SOME SECURITY CONTENT, BUT IS FOCUSED ON HEALTH AND SAFETY. IT DOES NOT REFER TO RTM'S SEMP AND DOES NOT COVER FULLY ITS P.A. OBLIGATIONS (P.A. SCHEDULE 15-3, ARTICLE 5.2 (B) (II) (B) AND RTM SEMS SECTION 4.14.2). ELEMENTS TO CONSIDER ADDING: I) NAME OF TRAINING TO STATE 'HEALTH, SAFETY AND SECURITY'; II) SEMP OVERVIEW; III) NEED FOR EMPLOYEES TO UNDERGO SECURITY CLEARANCE VERIFICATION ETC.
2D		SECURITY INITIATIVES	MOSTLY CONFORMANT	SECURITY INITIATIVES INCLUDE CCTV, ACCESS CONTROLS, TRAINING, CYBER SECURITY, KEY MANAGEMENT, DRILLS ETC. THE FENCING INTRUSION DETECTION SYSTEM (SEMP PART 4.7) IS EXPECTED TO BE FUNCTIONAL ONLY IN 2023.
2E		EMPLOYEE SECURITY CLEARANCE CHECKS	NOT CONFORMANT	EMPLOYEE SECURITY VERIFICATIONS ARE REQUIRED BY P.A. (SCHED. 15-3, ARTICLE 5.3) AND RTM SEMP (4.13). RTM APPEARS TO BE PERFORMING HR REFERENCE CHECKS, BUT NO EVIDENCE OF EMPLOYEE SECURITY CLEARANCE VERIFICATIONS BEING PERFORMED.
2F		SECURITY DRILLS / EXERCISES	MOSTLY CONFORMANT	RECORDS PROVIDED FOR FIRE DRILLS PERFORMED IN SEPT. 2021 AND DEC. 2022. SUCH DRILLS ARE REQUIRED WITHIN 12 MONTH INTERVALS (ONTARIO FIRE CODE (2.8.3.2.1(1), RTM'S SEMP 4.15 AND FIRE SAFETY PLAN RTM-SMS-PLN-241).

Monitoring Findings for RTM (cont'd):

3A	PROGRAM DIRECTION	INTERNAL DIRECTION	CONFORMANT	INTERNAL PROCEDURES PROVIDED (E.G. YCC MANUAL, HELP DESK PLAN, KEY POLICY, TRAINING ETC.)
ЗВ		DIRECTION TO CONTRACTORS	PARTIALLY CONFORMANT	RTM HAS PROVIDED THE FOLLOWING: 1) EXCERPT 9.5 (A) ENTITLED "THE MAINTENANCE SUBCONTRACTOR SHALL" STATES: "COMPLY WITH THE SAFETY MANAGEMENT PLAN", "GOOD INDUSTRY PRACTICE", "MAINTAIN AND SECURE THE MSF", AND "COMPLY WITH APPLICABLE LAW RELATING TO HEALTH AND SAFETY" 2) EXCERPT 28.5 ENTITLED "STAFF COMPETENCY" STATES: EMPLOYEES SHALL "RECEIVE SUCH TRAINING AND SUPERVISION AS IS NECESSARY TO ENSURE PROPER PERFORMANCE OF THIS AGREEMENT AND COMPLIANCE WITH ALL HEALTH AND SAFETY RULES", "MSC PARTIES TO MONITOR AND CORRECT COMPETENCY PERSONS" THE SUBCONTRACT EXCERPTS PROVIDED DO NOT APPEAR TO REFER TO RTM'S SEMP, ALTHOUGH IT IS APPLICABLE TO SUBCONTRACTORS (SEMP 1.2). FURTHER, THE ALSTOM OFFICERS INTERVIEWED WERE NOT AWARE OF RTM'S SEMP. ELEMENTS SUCH AS EMPLOYEE SECURITY CLEARANCE CHECKS DO NOT APPEAR TO BE DONE BY SUBCONTRACTORS.

Monitoring Findings for RTM (cont'd):

44	PROGRAM OVERSIGHT	OVERSIGHT / MONITORING	MOSTLY CONFORMANT	RTM PROVIDED OVERSIGHT AND MONITORING PLAN WHICH IS FOCUSED ON " MAINTENANCE AND REHABILITATION ACTIVITIES, INCLUDING RTM'S OWN, ALSTOM'S, AND OTHER SUBCONTRACTORS". THE INFORMATION PROVIDED BY RTM INDICATES THAT ONGOING OPERATIONAL MONITORING IS BEING DONE BY YCC'S FOR CERTAIN SECURITY INITIATIVES (I.E. CCTV, ACCESS TO FACILITY, EMERGENCY BUTTONS ETC.) AND THAT SECURITY EVENTS ARE DOCUMENTED IN THE 'SERVICE SUMMARY REPORTS'. HOWEVER THIS DOES NOT COVER 'PROGRAM OVERSIGHT' FOR SEMP (I.E. HOW DOES RTM MONITOR SEMP RESPONSIBILITIES SUCH AS EMPLOYEE SECURITY VERIFICATIONS, SUBCONTRACTOR COMPLIANCE, ANNUAL REVIEWS ETC.)?
5A	PROGRAM RECORDS	TRAINING RECORDS	CONFORMANT	TRAINING RECORDS PROVIDED FOR RTM AND ALSTOM.
5B		OVERSIGHT / SeMP RECORDS	MOSTLY CONFORMANT	RECORDS AVAILABLE OF SECURITY STATISTICS, DRILLS ETC. MISSING PROGRAM OVERSIGHT RECORDS (E.G. ANNUAL REVIEWS, EMPLOYEE SECURITY VERIFICATIONS, CONTRACTOR SECURITY COMPLIANCE ETC.)

Remedial Actions - Update

- OC Transpo requests remedial actions from RTG / RTM for all RMCO findings:
 - ✓ Expectations / timelines for submission and implementation of remedial actions specified in OC Transpo process map
- Resolution of Remedial Actions actively pursued:
 - ✓ OC Transpo engaging RTG / RTM and using contractual means for resolution;
 - ✓ OC Transpo / RMCO meet RTM quarterly to review status of remedial actions and expedite resolution
- Progress being made (refer to next slide*):
 - √ 26 of 41 findings closed through remedial actions resolution process;
 - ✓ Of the 15 remaining (open) findings:
 - 10 related to findings identified during 2022
 - 5 related to Emergency Response Plan (ERP) monitored Q4 2021 ERP developed by RTM with implementation in progress March July 2023
- ➤ Good collaboration by RTM, but resolution of some findings prolonged due to:
 - ✓ Development effort required (e.g. ERP)
 - ✓ Dependency on both RTM and Alstom

^{*} See next slide for summary table of findings and remedial actions

Remedial Actions – Update (cont'd)

Summary of RMCO findings and remedial actions since revenue service inception:

RMCO MONITORING FINDINGS - STATUS APRIL 4, 2023

REGULATORY AREA / PROGRAM	PERIOD MONITORED	NUMBER OF FINDINGS	NUMBER OF FINDINGS CLOSED*	NUMBER OF FINDINGS OPEN
RULES TRAINING - OPERATING EMPLOYEES	Q4 - 2019	1	1	0
TRACK INSPECTIONS	Q1 / Q2 - 2020	8	8	0
LRV INSPECTIONS	Q3 / Q4 - 2020	5	5	0
CATENARY INSPECTIONS	Q3 / Q4 - 2020	5	5	0
SMS	Q2 / Q3 - 2021	6	6	0
ERP	Q4 - 2021	6	1	5
INSPECTIONS LRV, TRACK, CATENARY	Q2 / Q3 - 2022	4	0	4
SECURITY MANAGEMENT SYSTEM	Q4 - 2022	6	0	6
	TOTAL	41	26	15

^{*} Further progress being made in 2023

Summary

- RMCO monitoring activities completed in 2022:
 - Inspection of Track, LRV and Catenary (revisited following 2020 monitoring);
 - Security Management System
- > RMCO current / upcoming activities:
 - Following April 13 Transit Commission meeting, Annual Compliance Report to be reviewed with City Council April 26, 2023;
 - Regulatory compliance monitoring for 2023 to start Q2 following risk-based selection of areas to monitor;
 - Ongoing focus on remedial actions with OC Transpo / RTM / RMCO