

O-Train Confederation Line Project Update



2

Derailment Incident - May 3, 2019

- On Friday, May 3, during morning launch testing and practice exercises, a train derailment occurred at Belfast Yard due to an incorrect switch movement;
- One train, travelling at a low rate of speed, had one set of wheels shift off the track at a switch location, where trains move from one track to another;
- The yard switches are currently manually controlled unlike the main line switches that are controlled by Communication Base Train Control (CBTC); and,
- There were no injuries and only minor repairs were required to the switch mechanism.



Safety Management System (SMS)

- The LRT System includes a robust Safety Management System (SMS);
- An event of this nature is taken very seriously;
- Safety is an iterative process and improving safety never ends; and,
- The SMS contains the following:
 - Safety is considered in everything we do;
 - Overarching goals to reduce harm, reduce damage or loss and reduce disruption; and,
 - Reporting and investigation protocols to identify what can be done to prevent a recurrence.

Derailment Incident - May 3, 2019

- In accordance with the SMS, an investigation into the incident was initiated immediately and morning launch activities ceased;
- By 3:00 p.m. Transit Services returned to normal operations and train deployment activities re-commenced; and,
- A number of operational and procedural changes have been implemented.

Update On Stations

All 13 stations have received occupancy permits and final cleanup of stations is underway.

Tunney's Pasture



Tunney's Pasture



Bayview



Bayview



Pimisi



Pimisi



Lyon



Lyon



Parliament



Parliament



Rideau




Rideau



uOttawa



←  Exit, Path, uOttawa
Sortie, Sentier, uOttawa

↑  Tunney's Pasture  West Oust

uOttawa

uOttawa

Exit to Street

uOttawa



Lees



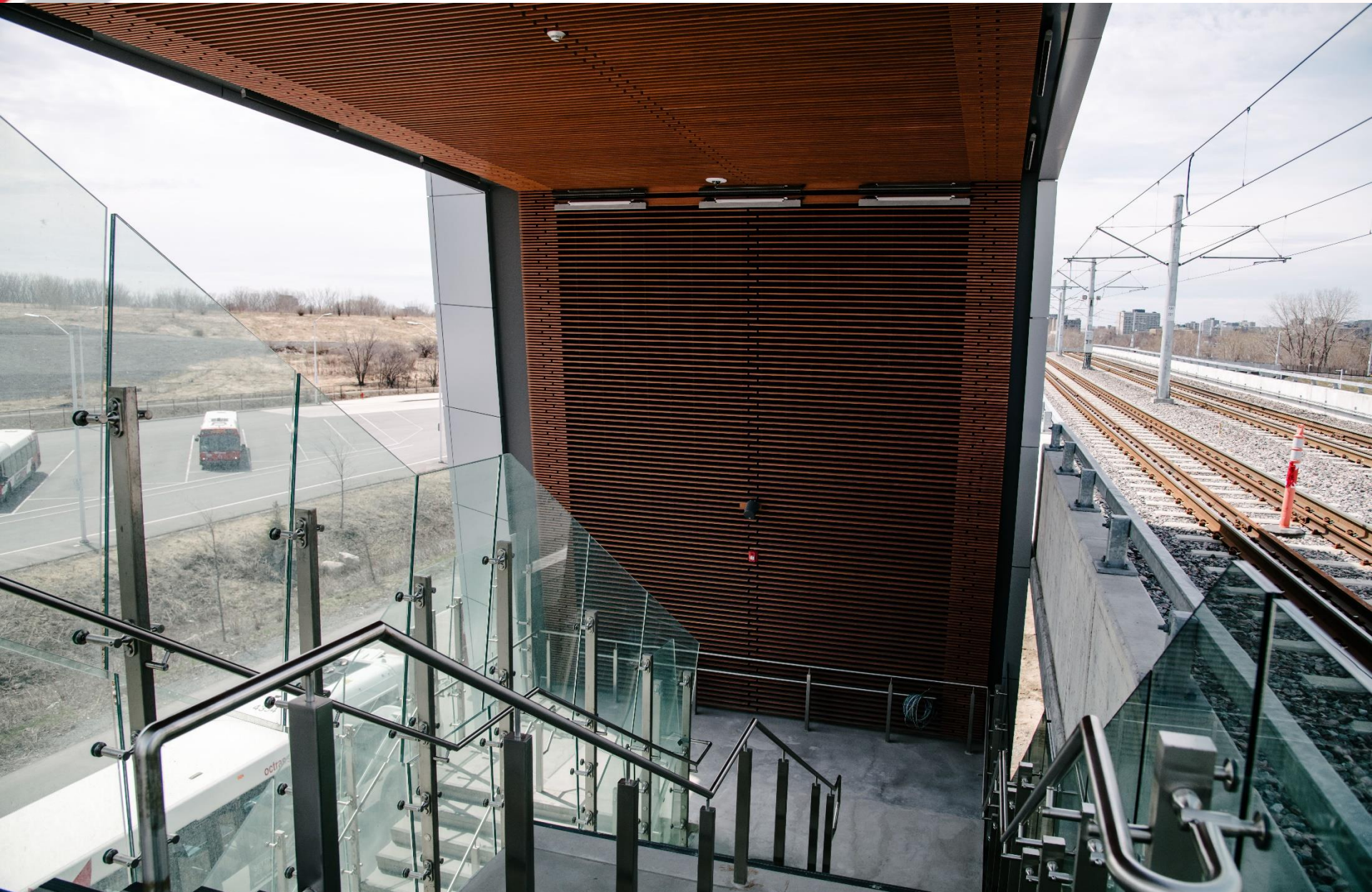
Lees



Hurdman



Hurdman



Tremblay



Tremblay



St-Laurent



St-Laurent



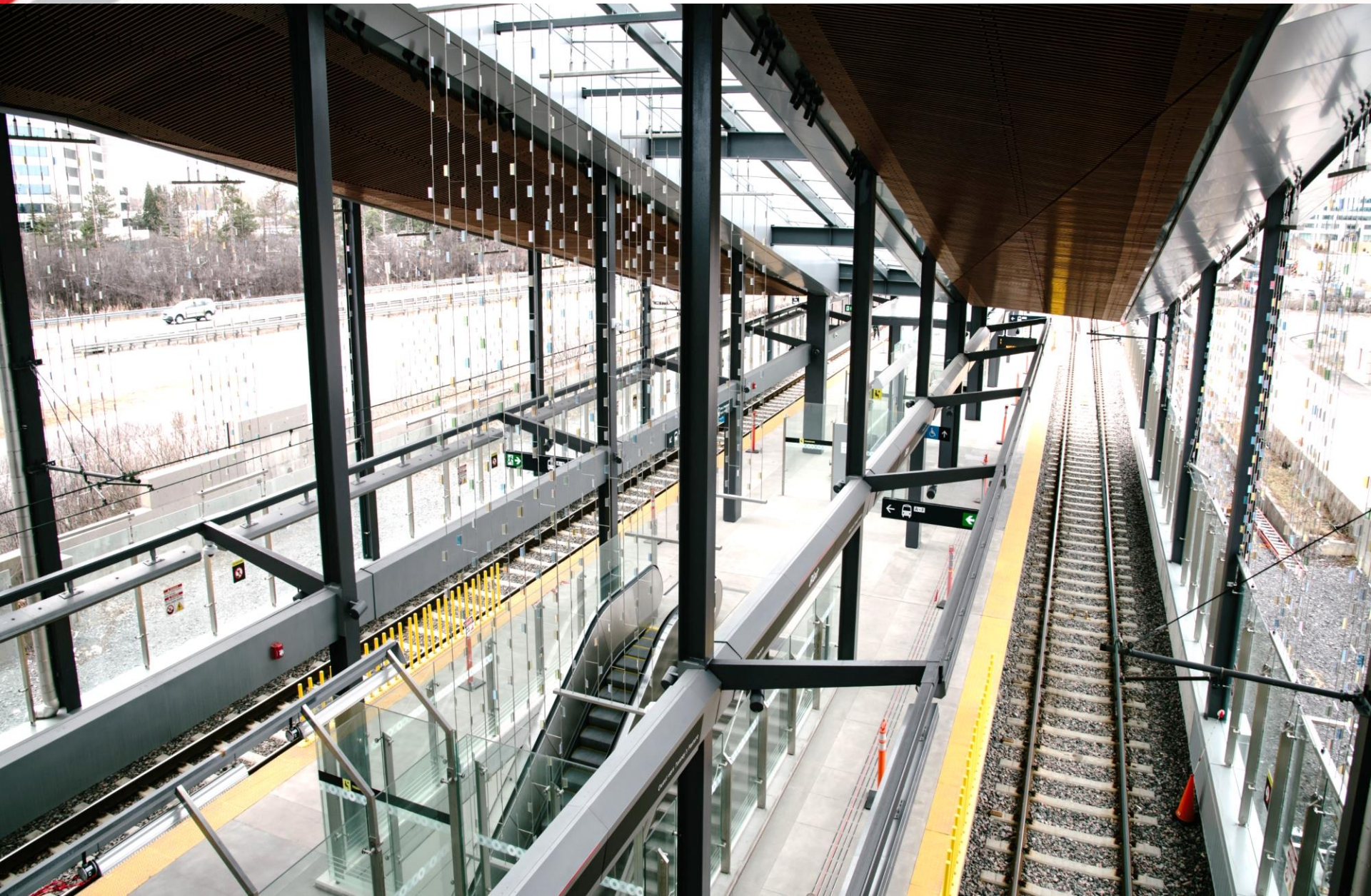
Cyrville



Cyrville



Blair



Blair



Project Status

- RTG has submitted their Substantial Completion notice and relevant paperwork;
- City is reviewing as per the process spelled out in the Project Agreement;
- Followed by an assessment by the Independent Certifier;
- RTG continues to advise that the system will be handed over to the City in Q2 2019;
- Final close out and completion work continues; and,
- Testing and commissioning continues.

Substantial Completion Project Agreement Requirement

- Substantial Completion signifies that the project has advanced to the point where construction and testing is effectively complete;
- Applies to fixed components (stations, rail, etc.) and vehicles; and,
- There can be no restrictions that materially impairs the City's use of the system.

Substantial Completion Project Agreement Requirement *(Cont'd)*

This includes:

- Public and City use of the system;
- Maintenance services by RTM; and,
- Safety or traffic flow in any relevant aspect.

Substantial Completion

Continued focus on critical elements:

- Safety;
- Vehicles;
- Critical operating system – both operating and customer facing;
- Stations; and,
- Maintenance readiness.

Substantial Completion Review Process

Up to 5 days

Up to 5 days

RTG issues Substantial Completion Notice and all supporting documentation

City provides opinion to Independent Certifier as to whether the conditions of Substantial Completion have been met

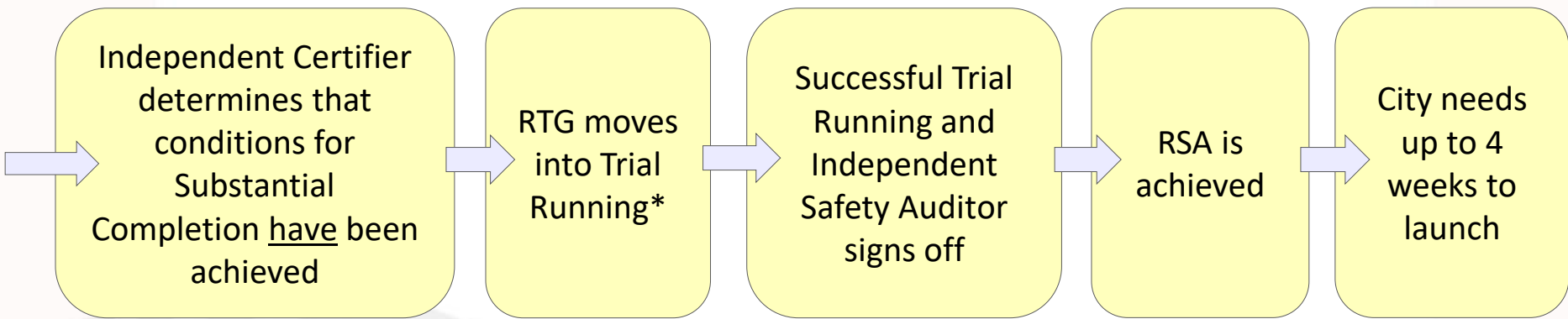
Independent Certifier determines whether RTG has satisfied the conditions of Substantial Completion

Scenario 1

Scenario 2

Substantial Completion Process

Scenario 1

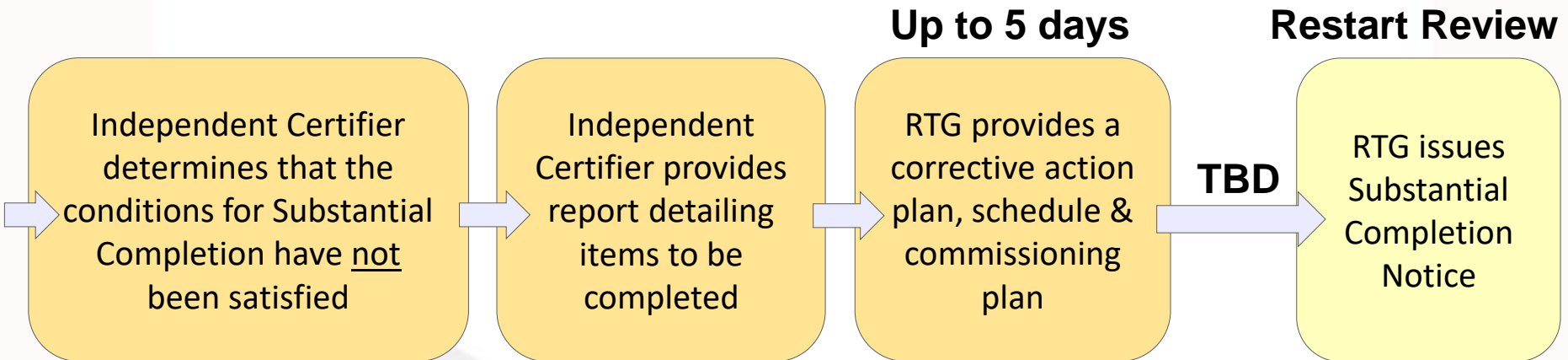


*Trial Running:

- 12 consecutive days of normal service schedule
- Exercise and validate the operating schedules and operational performance requirements;
- Exercise and confirm the operating reliability of the system and subsystems; and,
- Verify and demonstrate vehicle availability and reliability.

Substantial Completion Process

Scenario 2



Elements Being Monitored That Are Critical To Revenue Service Availability

1. Fleet availability for service requirements;
2. Station occupancy for all stations;
3. Tunnel Ventilation System (TVS) tests;
4. Testing of the train control system;
5. Final testing of control systems for transit operations;
6. Final tests of the power system to the alignment and trains;
7. RTG's system assurance – sign-off is to be provided on all documents required by the City's Safety Auditor;
8. End-to-End Practice Plan Running to demonstrate system capability; and,
9. Winter Operations.

Status of 9 Critical Elements

- RTG has made significant progress on all elements, however, to achieve Substantial Completion, outstanding work of varying degree remains; and,
- Full vehicle fleet reliability and completion of outstanding works required to ensure consistent reliable service.

City Preparation

- Conducting operational training, drills and exercises;
- Ongoing bus/rail planning and service changes; and,
- Ready for Rail campaign continues.



Questions?