

For Information

Presentation: Osgoode Interlocking Incident

Date: July 7, 2021 **To:** TTC Board

From: Chief Executive Officer

Summary

Kirsten Watson, Deputy CEO, Gary Downie, Chief Capital Officer, Betty Hasserjian, Chief Safety Officer (Acting) and Jim Ross, Chief Operating Officer will deliver a presentation concerning an operational incident that occurred on June 12, 2020 near Osgoode Station.

Financial Summary

There are no financial impacts associated with this report. Any financial impacts identified through the investigation into this incident will be included in future reports to the TTC Board.

The Interim Chief Financial Officer has reviewed this report and agrees with the financial summary information.

Equity/Accessibility Matters

There are no equity or accessibility impacts associated with this report.

Decision History

At its meeting on June 16, 2021, the TTC Board had before it a report entitled "Osgoode Interlocking Incident Report".

Report:

http://www.ttc.ca/About_the_TTC/Commission_reports_and_information/Commission_meetings/2021/June_16/Reports/15_Osgoode_Interlocking_Incident_Report.pdf

Transit Systems Engineering – Osgoode Interlocking Incident Report – February 3, 2021:

http://www.ttc.ca/About_the_TTC/Commission_reports_and_information/Commission_meetings/2021/June_16/Reports/15_Transit_Systems_Engineering_Osgoode_Interlocking_Incident.pdf

Decision:

http://www.ttc.ca/About_the_TTC/Commission_reports_and_information/Commission_meetings/2021/June_16/Reports/Decisions/2055_15_Osgoode_Interlocking_Incident_Report_Decision.pdf

Comments

On June 16, 2020, staff delivered a confidential presentation to the Board on the Osgoode Interlocking Incident.

In addition to adopting the staff recommendations, the TTC Board adopted two member motions on the report.

- 1. That TTC staff deliver a public presentation on the Osgoode Interlocking Incident at the July 7, 2021 Board meeting.
- That the TTC Board direct the Chief Executive Officer to alert the Board when an
 incident meeting the identified thresholds for escalation occurs and subsequently
 report to the Board once a comprehensive review or investigation has been
 completed.

The presentation, attached to this report, responds to the first motion.

The TTC has implemented an Escalation and Notification Protocol, which requires that the Board be advised of all incidents that meet the following criteria:

- Any Level 3 investigation.
 Level 3 investigations are conducted for our most serious incidents under the
 supervision of Senior Management and review and approval by the Executive. For
 occupational incidents, these investigations will address incidents where the amount
 and type of hazardous energy involved would most likely result in a fatality. For
 customer or public incidents, the consequence would be multiple fatalities.
- 2. Any near miss of revenue trains on the mainline.
- 3. Any safety investigation involving a 3rd party review.
- 4. Any matter at the discretion of the CEO or Chief Safety Officer.

Contact

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Signature

Richard J. Leary Chief Executive Officer

Attachments

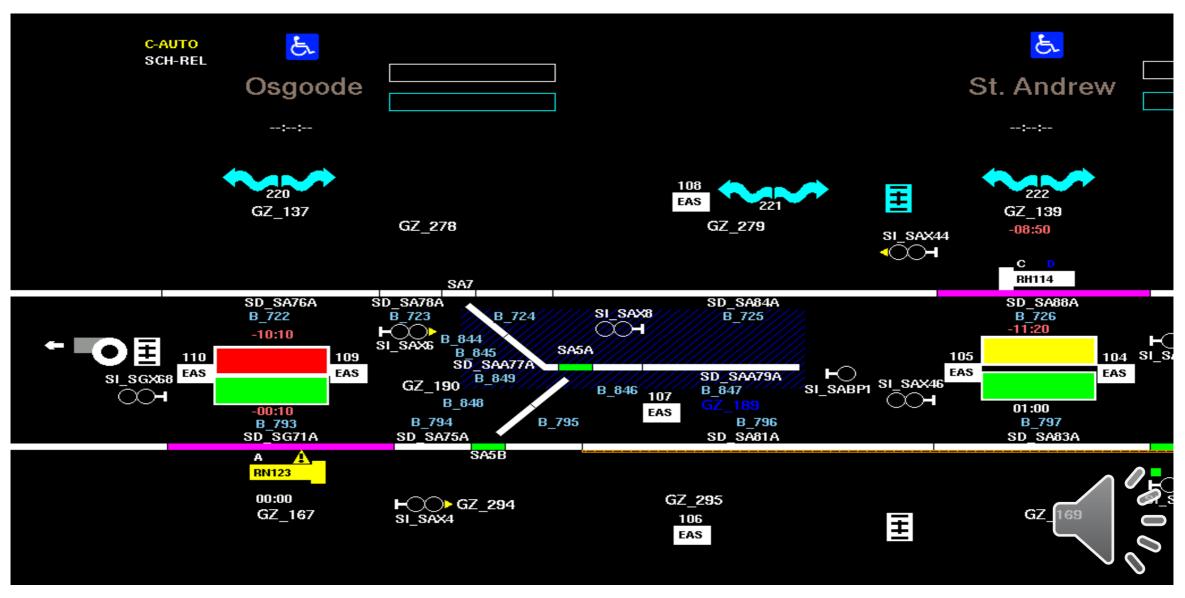
Presentation – Osgoode Interlocking Incident



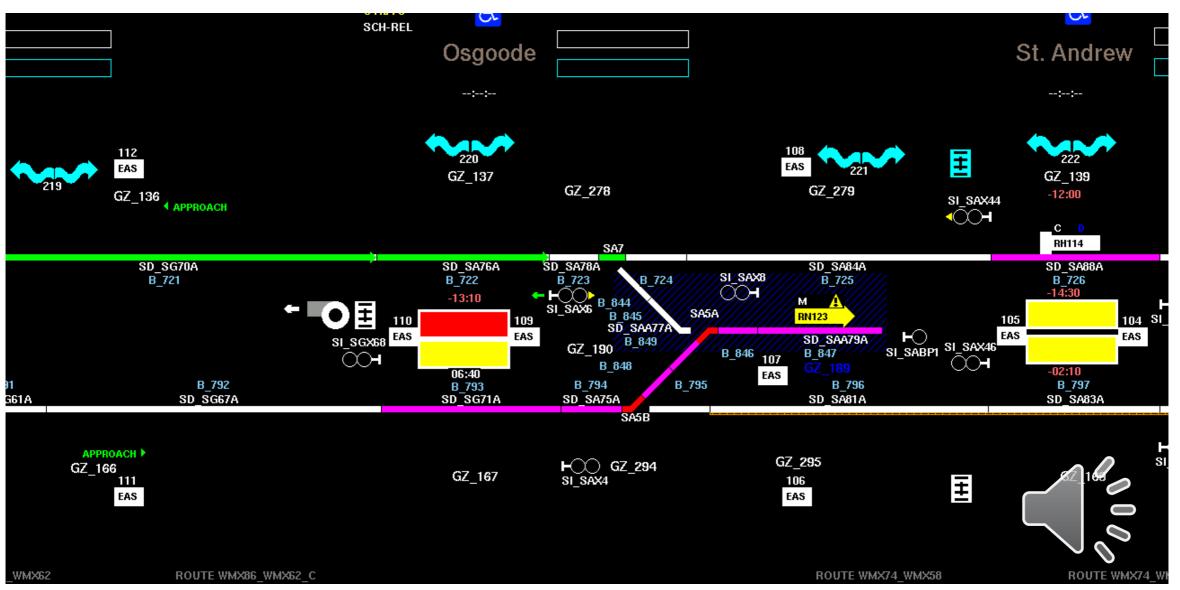
Osgoode Interlocking Incident

TTC Board Meeting July 7, 2021

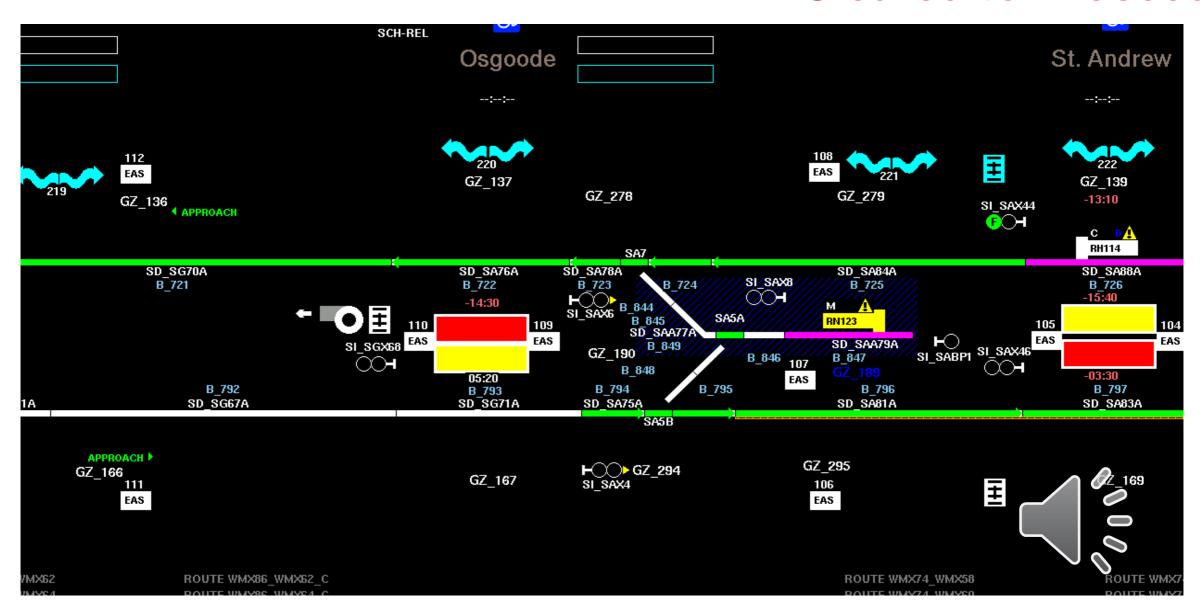
114 Holding with Emergency Alarm



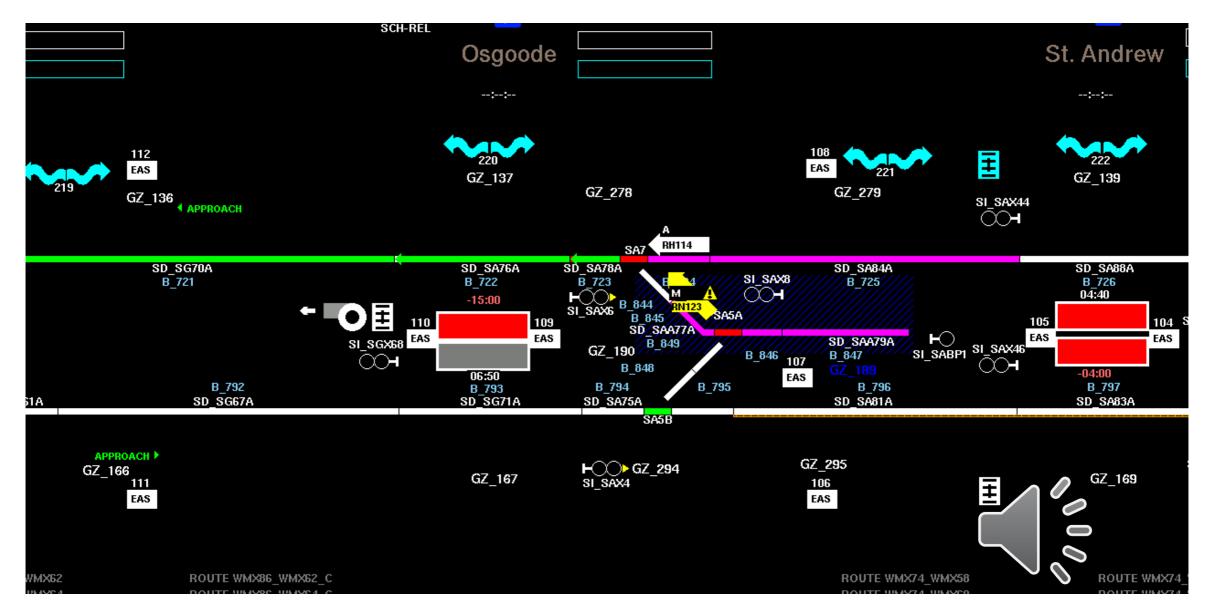
114 Holding with Emergency Alarm #2



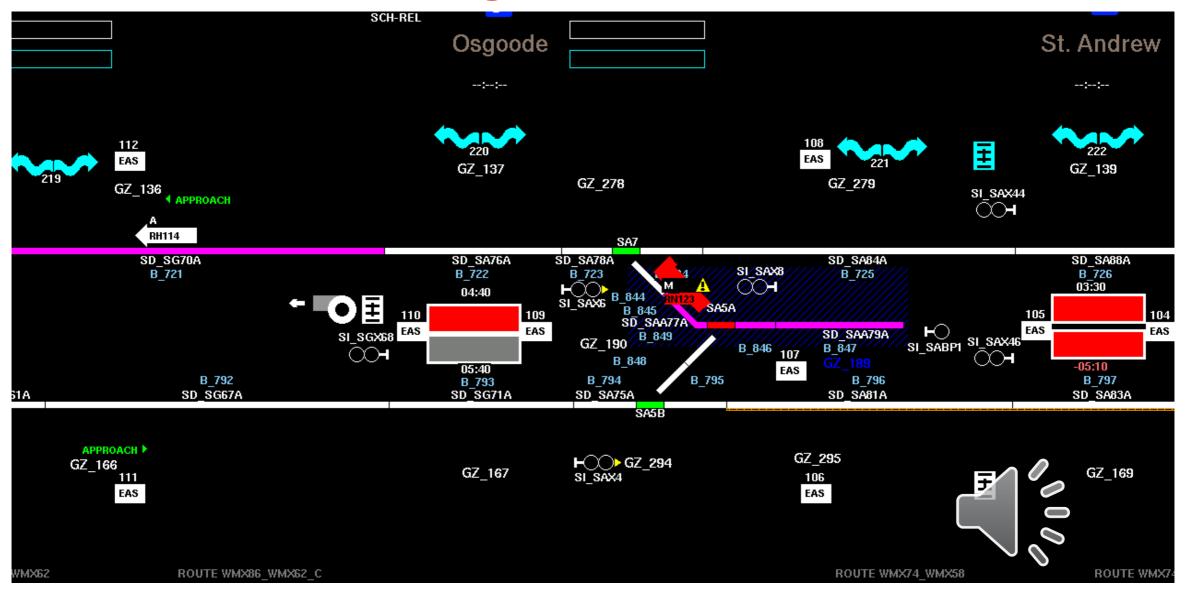
114 Cleared to Proceed



123 Unauthorized Move From Pocket Track



123 Begins to Reverse Into Pocket Track



Incident Video





Incident Review and Investigation (Process)

Safety
Incident
Snapshot
Initial
Report

Investigation
Levels

Scale of
investigation
conducted

• Level 1, 2 & 3

Safety Chief Investigation Level

Report 7-day Report

Chief
Level
Review
Safety
Executive
Meetings

Third-party

Investigation



Incident Review and Investigation (Findings)

Immediate Cause

Operator of Run 123 did not follow Transit Control instructions to move the train out of the Osgoode pocket track once the X8 displays a favourable signal.

Contributing Factors

- Visual obstruction of the X8 signal
- Failure to follow radio communication protocol
- Insufficient familiarity and understanding of manual operation in ATC territory
- Inadequate flank protection (in mixed mode) for mainline train operation at the Osgoode Interlocking
- Movement of Run 123 northbound without ATC system protection (GAMA feature removed)



Corrective Action Plan

32 corrective actions

- Completed actions 23
- In progress 9

Next steps

- Provide regular updates to the Board on Corrective Action Plan
- Next update in Q4 2021

Four categories of actions:



Communication



Training and Awareness



Rules and Procedures



System Changes



Motions from June 16 Board Meeting

- 1) That TTC staff deliver a public presentation on the Osgoode Interlocking Incident at the July 7, 2021 Board meeting.
- 2) That the TTC Board direct the Chief Executive Officer to alert the Board when an incident meeting the identified thresholds for escalation occurs and subsequently report to the Board once a comprehensive review or investigation has been completed.

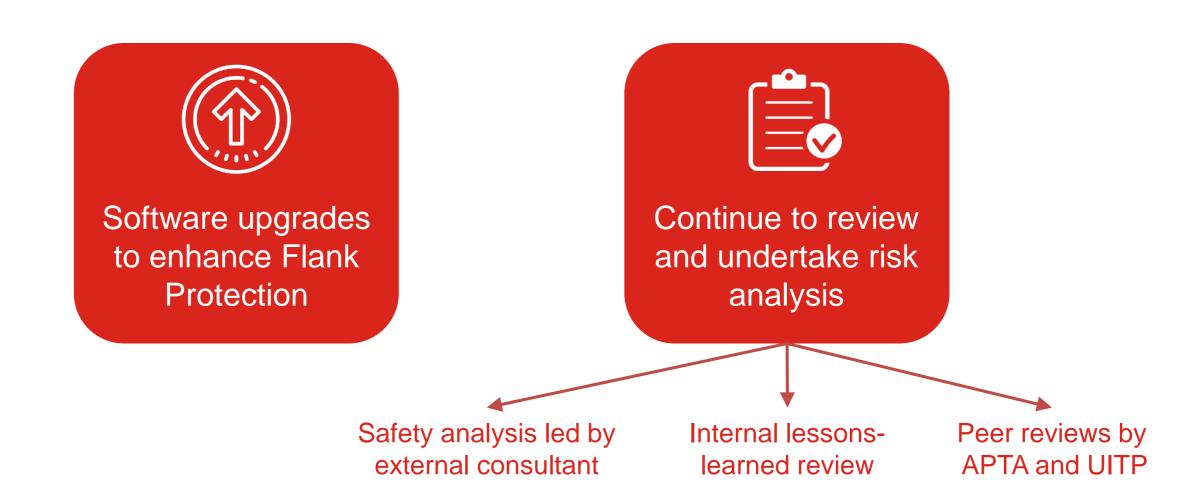


Identified Thresholds for Escalation

- 1) Any level 3 investigation which is our most serious incidents.
- 2) Any near miss of revenue trains on the mainline.
- 3) Any safety investigation involving a 3rd party review.
- 4) And, of course, any matter at the discretion of the CEO or Chief Safety Officer.



Improvements and Lessons Learned





Peer Reviews















New York City Transit











CBTC/ATC Around the World

