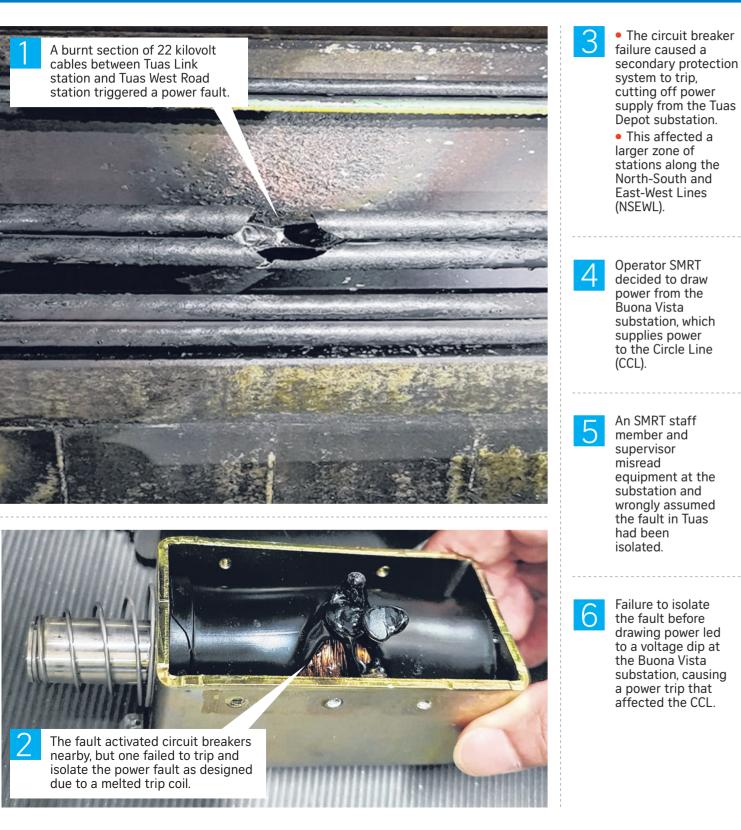
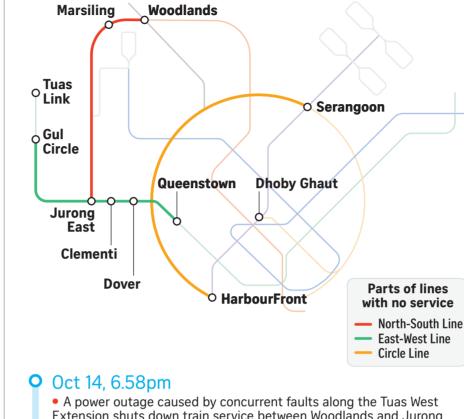
What caused the 3-line MRT disruption on Oct 14

CAUSE OF POWER FAILURE



TIMELINE OF EVENTS



• A power outage caused by concurrent faults along the Tuas West Extension shuts down train service between Woodlands and Jurong East stations on the North-South Line and between Queenstown and Gul Circle stations on the East-West Line.



 This causes 12 trains to stall on the tracks. It also affects in-train lighting and air-conditioning. The backup battery on affected trains kicks in to provide emergency lighting and ventilation.

O 7.34pm

• An attempt to draw power from the Buona Vista substation causes a second power outage, affecting service between HarbourFront and Serangoon stations on the CCL.

• Three trains stall as a result.

O 7.38pm

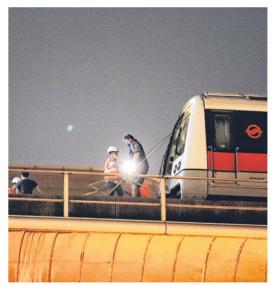
• SMRT decides to detrain passengers on the stalled trains as it cannot restore power supply quickly.

 As a safety measure, electrical protection devices are installed to guard against the accidental turning on of traction power.

• SMRT staff walk along the tracks to reach the stalled trains and help commuters.

• 7.53pm

Detrainment of NSEWL passengers begins.



7.59pm Detrainment of CCL passengers begins.

O 8pm

Power supply is restored for CCL, but SMRT does not restore traction power along sectors where detrainment is taking place for safety reasons.

O 8.17pm

All stranded CCL passengers reach the nearest stations.

• 8.42pm

Commuters from 11 stalled trains on NSEWL reach the nearest stations.

O 8.43pm

Train service along CCL progressively resumes.

O 8.44pm

Detrainment of the last train near Bukit Batok station is temporarily halted due to rain and lightning risk, with 78 commuters still on board.

• 9.43pm

The 78 commuters alight at Bukit Batok station.

O 10.34pm

• Train services are progressively restored on the NSEWL.



The three-hour. 36-minute incident affected 123.000 commuters. Of these. 6.500 commuters were on the 12 stalled NSEWL trains and 275 were on the three stalled CCL trains.

Sources: LAND TRANSPORT AUTHORITY, SMRT PHOTOS: LTA, GAVIN FOO, ST FILE, BH FILE STRAITS TIMES GRAPHICS