Transport for London

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Transport for London

Review and approval of 2026, 2026+28% AM and PM Peak SDCC design Legion models and accompanying reports:

Design suitability from a passenger flow perspective

This note summarises the position with regards to the technical audits of the Rail for London - IM Crossrail station complex models and their associated modelling reports.

These Legion models have been audited by CRL/TfL joint Operations Team against the CRL Pedestrian Modelling Guidelines and the CRL Platform Standard (CR-STD-305). These Legion models are therefore fit for purpose and each has an agreed and consistent set of assumptions.

The summary sheets attached cover the review of the modelling reports and the few cases where and when the new infrastructure comes close to the required capacity under CPFR version 5. Mitigation measures in these circumstances that RfL have agreed are noted along with their effectiveness. Static assessments of lift capacities at each station are also included.

This assessment is based on the CRL Pedestrian Modelling Guidelines and the CRL Platform Standard (CR-STD-305). These documents reference LUL's Station Planning Standards and Guidelines (2005) and TfL's Legion Modelling Best Practice (2009).

Any future modelling workstream will be based on these final models. Any changes to these models will be agreed with RfL and follow a change control process.

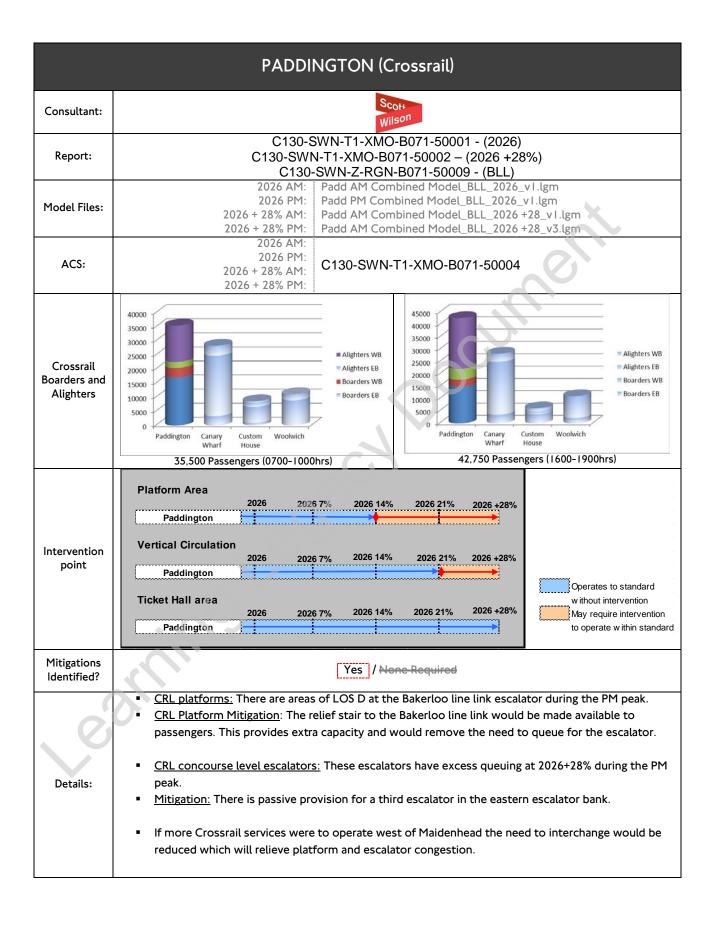


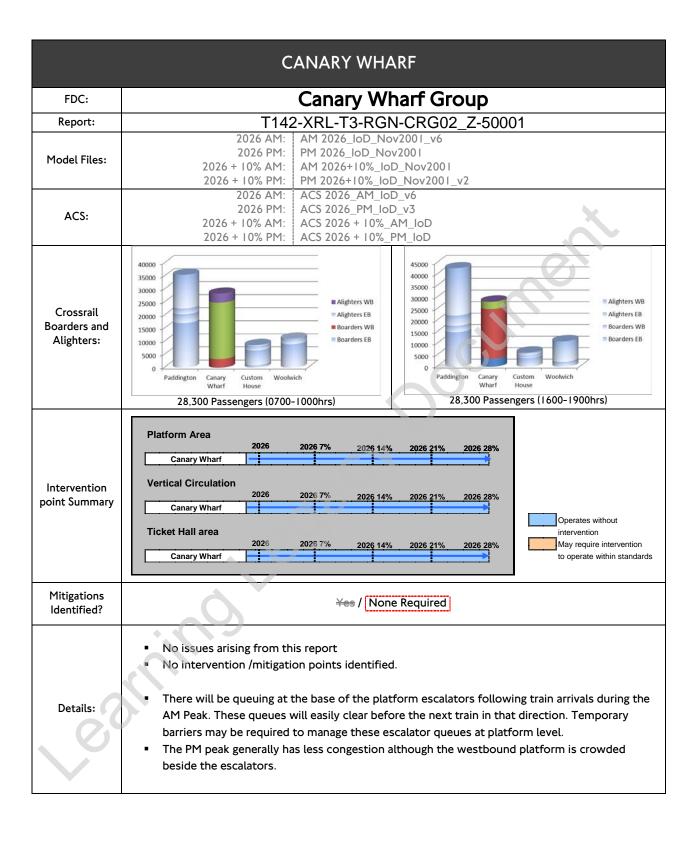
Director Operations, Overground & Crossrail 07 January 2013

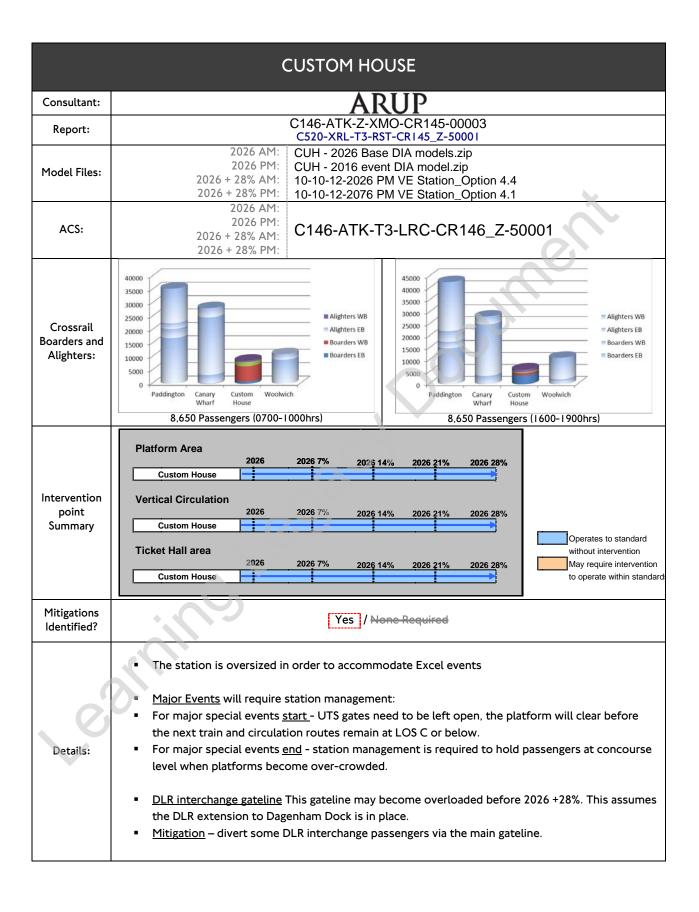
MAYOR OF LONDON

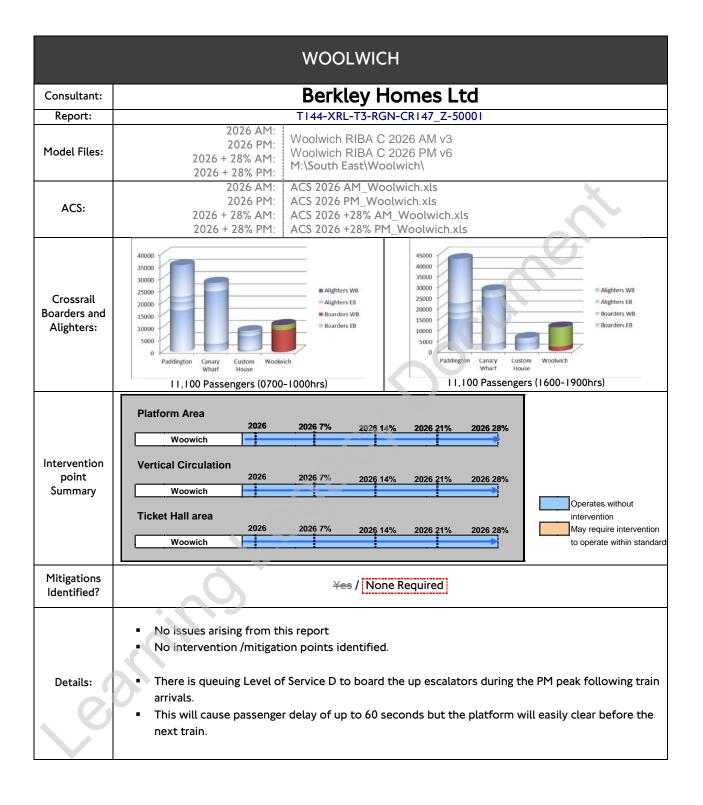












LIFT STATIC ASSESSMENT

Station	Lift	2026+28%	demand	Static Assessmen	t assuming capacity of lift	-70% of plated capacity
Paddington	LIII	AM	PM	Static Assessmen	AM	PM
Uft 3/4 Eastbourne Terr -Ticket Hall	3	√ •	√ •	-	Up: {100%,100%}	Up: {100%,100%}
Eastbourne T	4	✓ •	✓ •		Down: {100%,100%}	Down: {100%,100%}
Dep 36	5	✓ •	✓ •		Up: {100%,100%}	Up: {100%,100%}
Ticket Hall Lift S/6 Ticket Hall - XR Plotform	6	✓ •	✓ •		Down: {100%,100%}	Down: {100%,100%}
ii ii						
Crossrail Plat				{% of PRM types		
Canary Wharf		AM	PM	A,B,D,E that can	AM	PM
Lift 1 Lift 2 Ticket Hall concourse	1	✓ •	✓ •	be	Down: {100%,100%}	Down: {100%,100%}
TICKET HAII CONCOURSE	2	✓ •	✓ •	accommodated	Up: {100%,100%}	Up: {100%,100%}
Crossrail Plat JL JL				-		
Custom House		AM	PM	' 0	AM	PM
Lift 1 Lift 2 Ticket Hall concourse	1	✓ •	✓ •	% of PRM types	Down: {100%,100%}	Down: {100%,100%}
Ticket Hall concourse	3	✓ •	✓ •	C that can be	Up: {100%,100%}	Up: {100%,100%}
Victoria Dock R				accommodated}		
Woolwich		AM	PM		AM	PM
Lift 1 Ticket Hall concourse	1	✓ •	✓ •		Up: {100%,100%}	Up: {100%,100%}
11						
Crossrail Plat						
		THINED SITE	man I	<u> </u>	PM neak	



INNER SUBURB			
	AM peak		
% Passengers by PRM Category	Entrance	Exit	Av (Int)
A - Wheelchair	0.00	0.00	0.00
B - Physical mobility Impairment	0.28	0.31	0.16
C - Medium encumbrance	1.65	2.02	1.94
D - Large encumbrance	0.62	0.77	0.73
E - Buggy	0.09	0.09	0.08
Total	2.64	3.19	2.91

Entrance	Exit	Av (int)
0	0	0
0.38	0.43	0.22
6.71	8.22	7.89
1.68	2.09	1.97
0.13	0.13	0.12
8.9	10.87	10.2