



**Title** Operational Guidance for the use of TSRs on 4LM

**Doc Number:** 4LM-PSEC0056-SSL-DES-00252

**Version:** 9.0      **Date:** 12<sup>th</sup> May 2025

**The Approval and Acceptance of this document only applies to its technical detail; scope and commercial issues between the Employer (LU) and the Contractor (Thales UK or Canada) raised or implied herein must be resolved separately.**

**For LU: all changes identified as possibly changing or adding/removing scope set out in the 4LM contract (Works Information) must be presented to the 4LM RSD (ATC & Trains) System Design Authority and possible consideration for Change Control management and/or contract variation.**

	Date:	Name:	Signature:
LU Lead:	12/05/2025	Paul Taylor	
LU Signalling Engineer	27/05/2025	Matthew Hattersley	Accepted via email
LU Signalling Asset Engineer	27/05/2025	Peter Clifford	Accepted via email
LU T&C Engineer	27/05/2025	Hugh Williams	Accepted via email
LU System Integrator	27/05/2025	Stuart Coomer	Accepted via email
LU Operations	14/05/2025	Ray Barrett	Accepted via email
LU Operations	30/05/2025	Nimesh Darji pp Niall Gavaghan	Accepted via email
Hitachi Lead:	21/05/2025	Ryan Persaud	Accepted via email
Approved by (LU):	30/05/2025	Adrian Moorhouse	Accepted via email
Approved by (Hitachi):	31/05/2025	Shanty Morar	Accepted via email

## 1. History

Ver	Name:	Date	Notes
0.1	Matthew Shelley	30 <sup>th</sup> November 2018	Draft
1.0	Matthew Shelley	7 <sup>th</sup> January 2019	First issue
1.1	Matthew Shelley	13 <sup>th</sup> February 2019	Updated with comments from LU reviewers
1.2	Matthew Shelley	20 <sup>th</sup> February 2019	Updated with comments from Jane Power and Ray Barrett
1.3	Matthew Shelley	27 <sup>th</sup> February 2019	Updated following advise from Thales on GHR Brake rate / TSR interaction (section 5.4)
2.0	Matthew Shelley	15 <sup>rd</sup> July 2019	Updated for SMA1.0 / 2.0 commissioning
2.1	Matthew Shelley	17 <sup>th</sup> July 2019	Update to signatories and minor typos
2.2	Matthew Shelley	19 <sup>th</sup> July 2019	Updated with further advice from Thales
2.3	Matthew Shelley	12 <sup>th</sup> August 2019	Correction of typo's in section 5.7
3.0	Paul Taylor	11 <sup>th</sup> December 2020	Updated for SMA3 Commissioning
4.0	Paul Taylor	1 <sup>st</sup> April 2021	Updated for SMA4 Commissioning and removed restrictions now rectified in consultation with Ben Skoff.
5.0	Paul Taylor	28 <sup>th</sup> June 2021	Updated for 4.15.60 software commissioning
6.0	Paul Taylor	18 <sup>th</sup> February 2022	Updated for SMA5 Commissioning
7.0	Paul Taylor	8 <sup>th</sup> December 2022	Updated for SMA6 & 7 commissioning
8.0	Paul Taylor	29 <sup>th</sup> January 2024	Updated for Thales OR 843
9.0	Paul Taylor	12 <sup>th</sup> May 2025	Updated for SMA8 commissioning

## 2. Consultation List

Name:	Job Title	Company
Niall Gavaghan	Signalling Systems Manager	Transport for London
Andrea Ferretti	System Integration Engineer	Transport for London

## 3. Description

- 3.1. The purpose of this Working Group Notice is to provide operational guidance on the use of Temporary Speed Restrictions (TSRs) on 4LM.
- 3.2. This Working Group Notice supersedes 3CU 14021 0844 BSZZA rev1 TEMPORARY SPEED RESTRICTION (TSR) USAGE STRATEGY.

## 4. Known Issues with TSRs on 4LM

- 4.1. The following issues are known to exist with the 4.16.34 (VCC1-5, 9 & 10) & 4.16.55 (VCC8) version of software.
- 4.2. These issues will be managed by section 5 of this WGN.
- 4.3. Unless specifically mentioned these measures are applicable to both Operational TSRs and VCC applied TSRs.
  - 4.3.1. Issuing /Removing VCC TSRs that are within the protection envelope of a controlled train can cause the train to EB due to Target Point pullback.
  - 4.3.2. Where TSRs are applied to a contiguous range of track sections, they should be of the same value to reduce the risk of EB applications.
  - 4.3.3. TSRs placed before a Friction Only Brake Application (FOBA) enabled platform can cause the train to EB

## 5. Specific TSR Rules

### 5.1. Pre-Emptive TSRs

**5.1.1. These are detailed in 4LM-PSEC0056-SSL-DES-00218- VCC Commissioning Restrictions.**

### 5.2. Additional areas

- 5.2.1. In cases where Engineering Related TSRs are required, e.g. broken rail, 50 additional metres are required at the start of the TSR area, i.e. the direction from where the train will enter the TSR area
- 5.2.2. If the guideway where the TSR is to be applied is unidirectional then the 50 additional metres sections are only required at the start of the TSR area.
- 5.2.3. If the guideway where the TSR is to be applied is bidirectional then the 50 additional metres sections are required at both ends of the TSR area.
- 5.2.4. This is in addition to all of the rules below.

### 5.3. Friction Only Brake Application (FOBA) and TSRs

- 5.3.1. Platforms requiring FOBA enabled are listed in 4LM-PSEC0056-SSL-DES-00218- VCC Commissioning Restrictions.
- 5.3.2. Platforms where FOBA is enabled are available from the Control Room Technician (Trains).
- 5.3.3. FOBA is the function that ensure the emergency braking capability of the train is maintained. Any deviation from the agreed FOBA list should be identified to the Project Team / Brakes Engineer to determine if any further steps are required.
- 5.3.4. If a TSR is required in the platform or previous interstation run then FOBA should be disabled for that platform until the TSR is removed**
- 5.3.5. When the TSR is removed FOBA should be re-enabled.**
- 5.3.6. If FOBA is disabled then the Project Team (email to Paul Taylor and Sam Etchell) and Brakes Engineer (email to Michael Perrett) must be informed within 12 hours as per 4LM- PSEC0056-SSL-DES-00218- VCC Commissioning Restrictions.**

#### 5.4. Brake Rate Zones and TSRs

- 5.4.1. Placing the start or end of a new Brake Rate Zone in close proximity (brake rate change within service braking distance of start of TSR) to TSRs may result in trains applying their EBs.
- 5.4.2. The existing brake rate boundaries have been assessed (see section 5.1).
- 5.4.3. This issue does not impact modifying the brake rate within a pre-defined zone.
- 5.4.4. If a TSR is required within the same interstation run as a reduced brake rate zone then the TSR should be applied to the entire interstation run.**
- 5.4.5. In this instance an Interstation run includes both platforms (as detailed in 5.4.2) and all track sections in between.**

#### 5.5. Platform Area TSRs

- 5.5.1. Placing TSRs within a platform area may impact upon the train control whilst stopping resulting in in-accurate stops or EBs.
- 5.5.2. If a TSR is required within a platform area apply the TSR for entire platform area. The tracks associated with each SMA01/02/03/04/05/06/07/08 (when commissioned) platform area are shown below.**

Platform	Track Sections
Edgware Road plt 2(WB) and (EB)	10308, 10666, 10667, 10668, 10903, 10669, 10670, 10671, 10672, 10673, 10674, 10675, 10676, 10677
Edgware Road plt 3 (WB) and (EB)	10014, 10690, 10691, 10692, 10666, 10678, 10679, 10680, 10681, 10682, 10683, 10684, 10685, 10686, 10687, 10688, 10689, 10905
Edgware Road plt 4 (WB)	10014, 10015, 10016, 10017, 10018, 10019, 10020, 10021, 10022, 10023
Paddington plt 2 (WB)	10645, 10646, 10647, 10648, 10649, 10650
Paddington plt 15 (WB)	10061, 10062, 10063, 10064, 10065, 10066
Royal Oak plt 1 (WB)	10087, 10088, 10089, 10090, 10091, 10092
Westbourne Park plt 1 (WB)	10128, 10129, 10130, 10131, 10132, 10133, 10134, 10135
Ladbroke Grove plt 2 (WB)	10164, 10165, 10166, 10167, 10168, 10169
Latimer Road plt 2 (WB)	10191, 10192, 10193, 10194, 10195, 10196
Wood Lane plt 2 (WB)	10212, 10213, 10214, 10215, 10216, 10217
Shepherds Bush Market plt 2 (WB)	10232, 10233, 10234, 10235, 10236, 10237
Goldhawk Road plt 2 (WB)	10252, 10253, 10254, 10255, 10256, 10257
Hammersmith plt 1	10578, 10579, 10580, 10581, 10582, 10583, 10584, 10585, 10586
Hammersmith plt 2	10289, 10290, 10291, 10292, 10293, 10294
Hammersmith plt 3	10743, 10744, 10745, 10746, 10747, 10748
Goldhawk Road plt 1 (EB)	10551, 10550, 10549, 10548, 10547, 10546
Shepherds Bush Market plt 1 (EB)	10529, 10528, 10527, 10526, 10525, 10524
Wood Lane plt 1 (EB)	10510, 10509, 10508, 10507, 10506, 10505
Latimer Road plt 1 (EB)	10488, 10487, 10486, 10485, 10484, 10483
Ladbroke Grove plt 1 (EB)	10456, 10457, 10458, 10459, 10460, 10461
Westbourne Park plt 2 (EB)	10423, 10424, 10425, 10426, 10427, 10428
Royal Oak plt 2 (EB)	10380, 10381, 10382, 10383, 10384, 10385
Paddington plt 16 (EB)	10351, 10352, 10353, 10354, 10355, 10356
Paddington plt 1 (EB)	10605, 10606, 10607, 10608, 10609, 10610
Edgware Road plt 1 (EB) and (WB)	10309, 10310, 10311, 10312, 10313, 10314, 10315, 10316, 10317, 10318, 10319, 10320
Baker Street plt1	20516, 20517, 20518, 20519, 20520, 20521, 20522, 20523, 20524
Baker Street plt2 (NB)	20546, 20084, 20083, 20082, 20081, 20080, 20079, 20078, 20077, 20076, 20075, 20074, 20073

Baker Street plt3 (SB)	20313, 20314, 20315, 20316, 20317, 20318, 20319, 20320, 20321, 20559
Baker Street plt4	20528, 20529, 20530, 20531, 20532, 20533, 20534, 20535, 20542, 20543
Baker Street plt5 (EB)	20498, 20499, 20500, 20501, 20502, 20503, 20504, 20505, 20506
Baker Street plt6 (WB)	20484, 20483, 20482, 20481, 20480, 20479
Finchley Road plt1 (NB)	20223, 20222, 20221, 20220, 20219, 20218
Finchley Road Plt4 (SB)	20454, 20455, 20456, 20457, 20458, 20459
Great Portland Street Plt1 (WB)	20038, 20037, 20036, 20035, 20034, 20033
Great Portland Street Plt2 (EB)	20271, 20272, 20273, 20274, 20275, 20276
Euston Square Plt1 (WB)	20005, 20006, 20007, 20008, 20009, 20010, 20011, 20012
Euston Square plt2 (EB)	20244, 20245, 20246, 20247, 20248, 20249
Edgware Road Sidings 26 (EB)	10699, 10700, 10701, 10702, 10703, 10704, 10705, 10706, 10707
Paddington Suburban Reversal (WB)	10710, 10711, 10712, 10073, 10074, 10075, 10076, 10077, 10078, 10079, 10080, 10081
Stepney Green plt1	30020, 30021, 30022, 30023, 30024, 30025, 30026
Whitechapel plt2	30061, 30062, 30063, 30064, 30065, 30066, 30067, 30068
Whitechapel Westbound Reversal	30072, 30073, 30074, 30075, 30076, 30077, 30078, 30079
Aldgate East plt1	30097, 30098, 30099, 30100, 30101, 30102, 30103, 30104, 30105, 30106, 30107
Tower Hill plt1	30132, 30133, 30134, 30135, 30136, 30137, 30138, 30139, 30140, 30141
Tower Hill plt2	30925, 30926, 30927, 30928, 30929, 30930, 30931, 30932
Tower Hill Westbound Reversal	30147, 30148, 30149, 30150, 30151, 30152, 30153, 30154, 30155, 30937
Monument plt1	30162, 30163, 30164, 30165, 30166, 30167, 30168, 30169, 30170
Stepney Green plt2	30198, 30199, 30200, 30201, 30202, 30203, 30204
Whitechapel Eastbound Reversal	30225, 30226, 30227, 30228, 30229, 30230, 30231, 30232, 30233, 30234
Whitechapel plt1	30240, 30241, 30242, 30243, 30244, 30245, 30246, 30247, 30248, 30777, 30778
Aldgate East plt2	30817, 30273, 30274, 30275, 30276, 30277, 30278, 30279, 30280, 30281, 30282, 30818
Tower Hill Eastbound Reversal	30299, 30300, 30301, 30302, 30303, 30304, 30305, 30306, 30307, 30308, 30309, 30310, 30921
Tower Hill plt3	30313, 30314, 30315, 30316, 30317, 30318, 30319, 30320, 30321, 30322, 30323, 30324
Monument plt2	30339, 30340, 30341, 30342, 30343, 30344, 30345, 30346, 30347, 30348, 30349

Aldgate plt3	30350, 30351, 30352, 30353, 30354, 30355, 30356, 30357, 30358, 30359
Aldgate plt1	30796, 30833, 30835, 30836, 30837, 30838, 30839, 30840, 30841, 30842, 30846, 30918, 30919, 30920, 30938, 30942, 30943
Aldgate plt2	30562, 30563, 30564, 30565, 30566, 30567, 30568, 30569, 30570, 30571, 30572, 30797, 30798, 30916, 30917
Liverpool Street Outer Rail Limit of Shunt	30586, 30587, 30588, 30589, 30590, 30591, 30592, 30593, 30594, 30595, 30860, 30861
Liverpool Street plt1	30589, 30590, 30591, 30592, 30593, 30594, 30595, 30860, 30861
Moorgate plt1	30613, 30614, 30615, 30616, 30617, 30618, 30619
Moorgate Outer Rail Reversal	30629, 30630, 30631, 30632, 30633, 30634, 30635, 30636, 30637
Barbican plt1	30642, 30643, 30644, 30645, 30646, 30647, 30648
Farringdon plt1	30664, 30665, 30666, 30667, 30668, 30669, 30670, 30671
Kings Cross St Pancras plt2	30741, 30742, 30743, 30744, 30745, 30746, 30747
Kings Cross St Pancras Outer Rail Reversal	30760, 30761, 30762, 30763, 30764, 30765, 30766, 30767, 30768
Aldgate plt4	30803, 30804, 30805, 30806, 30807, 30808, 30809
Aldgate Inner Rail Reversal	30364, 30365, 30366, 30367, 30368, 30369, 30370, 30371, 30372, 30373
Liverpool Street plt2	30378, 30379, 30380, 30381, 30382, 30383, 30384, 30385, 30386
Liverpool Street Inner Rail Reversal	30862, 30386, 30387, 30388, 30389, 30390, 30391, 30392, 30393
Moorgate plt2	30399, 30400, 30401, 30402, 30403, 30404, 30405, 30406, 30407, 30408
Moorgate Inner Rail Reversal	30420, 30421, 30422, 30423, 30424, 30425, 30426, 30427, 30428
Moorgate plt4	30883, 30884, 30885, 30886, 30887, 30888, 30889, 30941, 30890, 30891
Moorgate plt3	30867, 30868, 30869, 30870, 30871, 30872, 30873, 30874
Barbican plt2	30429, 30430, 30431, 30432, 30433, 30434, 30435, 30436, 30437, 30438, 30439
Farringdon plt2	30451, 30452, 30453, 30454, 30455, 30456, 30457, 30458, 30459, 30460, 30947
Kings Cross St Pancras plt1	30528, 30529, 30530, 30531, 30532, 30533, 30534, 30535, 30536, 30537, 30538, 30539
Kings Cross St Pancras Inner Rail Reversal	30549, 30550, 30551, 30552, 30553, 30554, 30555, 30556, 30557

Cannon Street Platform 1	40003, 40004, 40005, 40006, 40007, 40008
Cannon Street Platform 2	40261, 40262, 40263, 40264, 40265, 40266, 40267
Mansion House Platform 1	40017, 40018, 40019, 40020, 40021, 40022
Mansion House Platform 3	40274, 40275, 40276, 40277, 40278, 40279, 40280, 40281
Blackfriars Platform 1	40042, 40043, 40044, 40045, 40046, 40047
Blackfriars Platform 2	40300, 40301, 40302, 40303, 40304, 40305, 40306, 40307
Temple Platform 1	40073, 40074, 40075, 40076, 40077, 40078, 40079
Temple Platform 2	40332, 40333, 40334, 40335, 40336, 40337, 40338
Embankment Platform 1	40099, 40100, 40101, 40102, 40103, 40104, 40105, 40106, 40107, 40108, 40517
Embankment Platform 2	40361, 40362, 40363, 40364, 40365, 40366, 40367, 40368, 40369
Westminster Platform 1	40129, 40130, 40131, 40132, 40133, 40134, 40135
Westminster Platform 2	40390, 40391, 40392, 40393, 40394, 40395, 40396, 40397
St.James's Park Platform 1	40162, 40163, 40164, 40165, 40166, 40167, 40168
St.James's Park Platform 2	40421, 40422, 40423, 40424, 40425, 40426, 40427, 40428
Victoria Platform 1	40191, 40192, 40193, 40194, 40195, 40196, 40197
Victoria Platform 2	40451, 40452, 40453, 40454, 40455, 40456, 40457, 40458
Sloane Square Platform 1	40234, 40235, 40236, 40237, 40238, 40239, 40240
Sloane Square Platform 2	40495, 40496, 40497, 40498, 40499, 40500, 40501
Embankment Eastbound Reversal	40350, 40351, 40352, 40353, 40354, 40355, 40356
Bayswater Platform 1	50608, 50609, 50610, 50611, 50612, 50613, 50614
Bayswater Platform 2	50722, 50723, 50724, 50725, 50726, 50727, 50728
Notting Hill Gate Platform 1	50638, 50639, 50640, 50641, 50642, 50643, 50644, 50645, 50646
Notting Hill Gate Platform 2	50754,.. 50755, 50756, 50757, 50758, 50759, 50760
High Street Kensington Platform 1	50678, 50679, 50680, 50681 ,50682, 50683, 50684

High Street Kensington Platform 2	50791, 50792, 50793, 50794, 50795, 50796, 50797, 50798
High Street Kensington Platform 3	50892, 50893, 50894, 50895, 50896, 50897, 50898, 50899
High Street Kensington Platform 4	50974, 50975, 50976, 50977, 50978, 50979, 50980, 51098
South Kensington Platform 1	50033, 50034, 50035, 50036, 50037, 50038, 50039
South Kensington Platform 2	50228, 50229, 50230, 50231, 50232, 50233, 50234, 50235
Gloucester Road Platform 1	50063, 50064, 50065, 50066, 50067, 50068, 50069
Gloucester Road Platform 2	50542, 50543, 50544, 50545, 50546, 50547, 50548
Gloucester Road Platform 3	50258, 50259, 50260, 50261, 50262, 50263, 50264, 50265
Earls Court Platform 1	51031, 51032, 51033, 51034, 51035, 51036, 51037, 51038, 51075
Earls Court Platform 2	50301, 50302, 50303, 50304, 50305, 50306, 50307, 50308, 50451, 50452, 50453
Earls Court Platform 3	50102, 50103, 50104, 50105, 50106, 50107, 50108
Earls Court Platform 4	50943, 50944, 50945, 50946, 50947, 50948, 50949, 50950, 50951, 50952, 50953, 50954, 50955, 50956, 50957, 50958, 51059, 51060
West Brompton Platform 1	50401, 50402, 50403, 50404, 50405, 50406
West Brompton Platform 2	50471, 50472, 50473, 50474, 50475, 50476, 50477
Fulham Broadway Platform 1	50434, 50435, 50436, 50437, 50438, 50439, 50440
Fulham Broadway Platform 2	50506, 50507, 50508, 50509, 50510, 50511, 50512
West Kensington Platform 1	50144, 50145, 50146, 50147, 50148, 50149, 50150, 50151, 50152
West Kensington Platform 2 & West Kensington Eastbound Limit of Shunt	50339, 50340, 50341, 50342, 50343, 50344, 50345, 50346, 50347, 50348, 50349, 50350, 50351, 50352, 51083, 51084, 51085, 51086
Kensington Olympia Platform 1	50879, 50880, 50881, 50882, 50883, 50884, 50885, 50886, 50887, 50888
Barons Court Platform 1	50171, 50172, 50173, 50174, 50175, 50176, 50177, 50178, 50179, 50180
Barons Court Platform 4	50370, 50371, 50372, 50373, 50374, 50375, 50376
Lillie Bridge Siding 1	51202, 51203, 51204, 51205, 51206, 51207, 51208
Lillie Bridge Siding 2	51228, 51229, 51230, 51231, 51232, 51233, 51234

Lillie Bridge Siding 4	51236, 51237, 51238, 51239, 51240, 51241, 51242
Lillie Bridge Siding 5	51245, 51246, 51247, 51248, 51249, 51250, 51251
Lillie Bridge Siding 6	51254, 51255, 51256, 51257, 51258, 51259, 51260
Lillie Bridge Siding 7	51262, 51263, 51264, 51265, 51266, 51267, 51268, 51269
Lillie Bridge Siding 8	51272, 51273, 51274, 51275, 51276, 51277, 51278
Lillie Bridge Siding 9	51192, 51193, 51194, 51195, 51196, 51197, 51198, 51199, 51200
Lillie Bridge Siding 10	51182, 51183, 51184, 51185, 51186, 51187, 51188
Lillie Bridge Siding 11	51174, 51175, 51176, 51177, 51178, 51179, 51180
Lillie Bridge Siding 12	51166, 51167, 51168, 51169, 51170, 51171, 51172
Lillie Bridge Siding 13	51142, 51143, 51144, 51145, 51146, 51147, 51148
Lillie Bridge Shunt Neck	51156, 51157, 51158, 51159, 51160, 51161, 51162, 51163, 51164, 51165, 51294, 51295, 51305, 51309, 51296
Whiteley's Siding	51220, 51221, 51222, 51223, 51224, 51225, 51226, 51227
Triangle Siding 34	51134, 51135, 51136, 51137, 51138, 51139, 51140, 51141
Triangle Siding 36	51125, 51126, 51127, 51128, 51129, 51130, 51131, 51132
Triangle Siding 37	51113, 51114, 51115, 51116, 51117, 51118, 51119, 51120, 51121
Electric Road / Lillie Bridge Olympia exit (LBO-REV)	51282, 51283, 51284, 51285, 51286, 51287, 51288, 51290
High Street Kensington Reverse Berth	50693, 50694, 50695, 50696, 50697, 50698, 50699, 50700, 50701, 50702
Triangle East Reverse Berth	50988, 50989, 50990, 50991, 50992, 50993, 50994, 50995, 50996
South Kensington East Reverse Berth	50213, 50214, 50215, 50216, 50217, 50218, 50219
Cromwell Curve Outer Rail Reverse Berth (GRD-OR-REV)	50562, 50563, 50564, 50565, 50566, 50567, 50568, 50569
Earls Court Yard Reverse Berth	50289, 50290, 50291, 50292, 50293, 50294, 50295, 50296, 51310, 51061
West Kensington Westbound Reversal	50156, 50157, 50158, 50159, 50160, 50161, 50162
Becontree Platform 1	90014, 90015, 90016, 90017, 90018, 90019, 90020
Becontree Platform 2	90558, 90559, 90560, 90561, 90562, 90563, 90564, 90565, 90566, 90567

Upney Platform 1	90091, 90092, 90093, 90094, 90095, 90096, 90097, 90098, 90099, 90100
Upney Platform 2	90632, 90633, 90634, 90635, 90636, 90637, 90638, 90639, 90640, 90641
Barking Platform 2	90693, 90694, 90695, 90696, 90697, 90698, 90699
Barking Platform 3	91084, 91085, 91086, 91087, 91088, 91089, 91090, 91091
Barking Platform 6	90154, 90155, 90156, 90157, 90158, 90159, 90160
East Ham Eastbound Reverse	90779, 90780, 90781, 90782, 90783, 90784, 90785, 90786
East Ham Platform 1	90251, 90252, 90253, 90254, 90255, 90256, 90257, 90258
East Ham Platform 2	90794, 90795, 90796, 90797, 90798, 90799, 90800, 90801
Upton Park Platform 1	90309, 90310, 90311, 90312, 90313, 90314, 90315
Upton Park Platform 2	90850, 90851, 90852, 90853, 90854, 90855, 90856, 90857
Plaistow Platform 1	90361, 90362, 90363, 90364, 90365, 90366, 90367, 90368
Plaistow Platform 2	90902, 90903, 90904, 90905, 90906, 90907, 90908, 90909, 90910
Plaistow Platform 3	91125, 91126, 91127, 91128, 91129, 91130, 91131, 91132, 91133, 91135, 91136 d
West Ham Siding	91153, 91154, 91155, 91156, 91157, 91158, 91159, 91160, 91161, 91162, 91163, 91167, 91149, 91150
West Ham Platform 1	90397, 90398, 90399, 90400, 90401, 90402, 90403
West Ham Platform 2	90938, 90939, 90940, 90941, 90942, 90943, 90944, 90945
Bromley-By-Bow Platform 1	90453, 90454, 90455, 90456, 90457, 90458, 90459
Bromley-By-Bow Platform 2	90996, 90997, 90998, 90999, 91000, 91001, 91002, 91003, 91004, 91005
Bow Road Platform 1	90492, 90493, 90494, 90495, 90496, 90497, 90498, 90499, 90500
Bow Road Platform 2	91037, 91038, 91039, 91040, 91041, 91042, 91043
Mile End Platform 2	90517, 90518, 90519, 90520, 90521, 90522, 90523, 90524, 90525
Mile End Platform 3	91061, 91062, 91063, 91064, 91065, 91066, 91067
Barking Siding 21	91199, 91200, 91201, 91202, 91203, 91204, 91205, 91206, 91207
Barking Siding 22	91259, 91260, 91261, 91262, 91263, 91264, 91265, 91266, 91267

Barking Siding 23	91247, 91248, 91249, 91250, 91251, 91252, 91253, 91254, 91255
Barking Siding 24	91217, 91218, 91219, 91220, 91221, 91222, 91223, 91224
Barking Siding 25	91233, 91234, 91235, 91236, 91237, 91238, 91239, 91240
Barking 30 Road Reverse berth	91295, 91296, 91297, 91298, 91299, 91300, 91301, 91302, 91303, 91304, 91305, 91306, 91307, 91308
Barking Siding 26 West	91353, 91354, 91355, 91356, 91357, 91358, 91359, 91360, 91361
Barking Siding 26 East	91346, 91347, 91348, 91349, 91350, 91351, 91352
Barking Siding 27 West	91335, 91336, 91337, 91338, 91339, 91340, 91341, 91342, 91343
Barking Siding 27 East	91329, 91330, 91331, 91332, 91333, 91334
Barking Siding 28 West	91320, 91321, 91322, 91323, 91324, 91325, 91326
Barking Siding 28 East	91313, 91314, 91315, 91316, 91317
Barking Siding 29 West	91275, 91276, 91277, 91278, 91279, 91280, 81281, 91282
Barking Siding 29 East	91269, 91270, 91271, 91272, 91273, 91274
Upminster 51 A	100778, 100779, 100780, 100781, 100782, 100783, 100784
Upminster 52 A	100751, 100752, 100753, 100754, 100755, 100756, 100757, 100758
Upminster 53 A	100366, 100367, 100368, 100369, 100370, 100371, 100372
Upminster 51 Reverse	100785, 100786, 100787, 100788, 100789, 100790, 100791, 100792
Upminster 52 Reverse	100759, 100760, 100761, 100762, 100763, 100764, 100765
Upminster 53 Reverse	100373, 100375, 100376, 100377, 100378, 100379, 100862
Upminster Platform 5	100795, 100796, 100797, 100798, 100799, 100800, 100801, 100802, 100803, 100770, 100771
Upminster Platform 4	100383, 100384, 100385, 100386, 100387, 100388, 100389, 100390, 100391, 100858, 100859
Upminster Platform 3	100002, 100003, 100004, 100005, 100006, 100007, 100008, 100096, 100814, 100822
Upminster Bridge Platform 2	100436, 100437, 100438, 100439, 100440, 100441, 100442, 100443, 100444, 100445, 100446
Upminster Bridge Platform 1	100053, 100054, 100055, 100056, 100057, 100058, 100059, 100060
Hornchurch Platform 2	100487, 100488, 100489, 100490, 100491, 100492, 100493, 100494, 100495, 100496, 100497, 100498

Hornchurch Platform 1	100105, 100106, 100107, 100108, 100109, 100110, 100111
Elm Park Platform 2	100551, 100552, 100553, 100554, 100555, 100556, 100557, 100558, 100559, 100560, 100561
Elm Park Platform 1	100167, 100168, 100169, 100170, 100171, 100172, 100173
Dagenham East Platform 1	100262, 100263, 100264, 100265, 100266, 100267, 100268
Dagenham East Platform 2	100646, 100647, 100648, 100649, 100650, 100651, 100652, 100653, 100654, 100655, 100656
Dagenham East Platform 3	100832, 100833, 100834, 100835, 100836, 100837, 100838, 100839, 100847, 100848
Dagenham East Siding	100841, 100842, 100843, 100844, 100845, 100846
Dagenham East Westbound Reverse	100281, 100282, 100283, 100284, 100285, 100286, 100287, 100288, 100853
Dagenham Heathway Platform 1	100320, 100321, 100322, 100323, 100324, 100325, 100326
Dagenham Heathway Platform 2	100704, 100705, 100706, 100707, 100708, 100709, 100710, 100711, 100712, 100713, 100714
Willesden Green Platform 1	80097, 80098, 80099, 80100, 80101, 80102
Neasden Platform 1	80179, 80180, 80181, 80182, 80183, 80184, 80185, 80186
Wembley Park Platform 1	80277, 80278, 80279, 80280, 80281, 80282, 80283
Wembley Park Platform 2	80733, 80734, 80735, 80736, 80737, 80738, 80739, 80740
Preston Road Platform 1	80794, 80795, 80796, 80797, 80798, 80799, 80780
Willesden Green Platform 4	80458, 80459, 80460, 80461, 80462, 80463, 80464
Neasden Platform 4	80542, 80543, 80544, 80545, 80546, 80547, 80548, 80549, 80550
Wembley Park Platform 5	80825, 80826, 80827, 80828, 80829, 80830, 80831, 80832
Wembley Park Platform 6	80644, 80645, 80646, 80647, 80648, 80649, 80650, 80651
Preston Road Platform 2	80886, 80887, 80888, 80889, 80890, 80891, 80892
Neasden Depot Klondyke Road 22 Pseudo station	81011, 81012, 81013, 81014, 81015, 81016, 81017, 81018, 81019, 81020, 81057
Neasden Depot Klondyke Road 23 Pseudo station	81040, 81041, 81042, 81043, 81044, 81045, 81046, 81047, 81048
Neasden Depot Road 1 Pseudo station	81088, 81089, 81090, 81091, 81092, 81093, 81094
Neasden Depot Road 3 Pseudo station	81150, 81151, 81152, 81153, 81154, 81155, 81156
Neasden Depot Road 4 Pseudo station	81133, 81134, 81135, 81136, 81137, 81138, 81139, 81140
Southbound Depot Road Pseudo station	81102, 81103, 81104, 81105, 81106, 81107, 81108, 81109, 81110, 81111, 81112, 81113, 81114, 81115, 81116, 81117, 81118, 81119, 81120, 81121, 81122, 81123, 81124, 81125, 81126, 81127, 81252
Northbound Depot Road Pseudo station	81168, 81169, 81170, 81171, 81172, 81173, 81174, 81175, 81176, 81177, 81178, 81179, 81180, 81181, 81182, 81183, 81184, 81185, 81186, 81187, 81188,

	81189, 81190, 81191, 81192, 81193, 81194
Neasden Depot Road 41 Pseudo station	81212, 81213, 81214, 81215, 81216, 81217, 81218, 81219, 81220, 81221
Neasden Depot Fan Roads Pseudo station	81239, 81098, 81240, 81241, 81242, 81243, 81244, 81245, 81246
Neasden Depot Road 40 Pseudo station	81206, 81207, 81208, 81209, 81210, 81212, 81213, 81214, 81215, 81216
Neasden Depot Roads 42-46 Pseudo station	81212, 81213, 81214, 81223, 81224, 81225, 81226, 81227, 81228, 81229, 81230
Neasden Platform 3	80952, 80953, 80954, 80955, 80956, 80957, 80958, 80959, 81251
Neasden Platform 2	80909, 80910, 80911, 80912, 80913, 80914, 80915, 80916, 81253
Neasden Northbound Met Reversal Berth	80201, 80202, 80203, 80204, 80205, 80206, 80207, 80208
Neasden Southbound Met Stopping Berth	80562, 80563, 80564, 80565, 80566, 80567, 80568, 80569
Preston Road NB Fast Migration Boundary Berth	80331, 80332, 80333, 80334, 80335, 80336, 80337
Preston Road SB Fast Migration Boundary Berth	80715, 80716, 80717, 80718, 80719, 80720, 80721

## **6. Converting LCS Codes to Track Section**

- 6.1. The attached spreadsheet enables the user to convert an LCS code to a Hitachi Track section.



Track Sections  
3.0.xlsx



- 6.2. Each line has its own tabs. Look up the Track Sections against the LCS codes  
6.3. The track section numbers should be [checked against the Hitachi Track Map](#).  
6.4. Note; if Start LCS code is Different from End LCS code then the Track Section list must be created in stages by checking one LCS code at a time. Guidance on the use of LCS codes can be found on the TfL intranet  
6.5. Check the track sections generated against the Specific TSR Rules in section 5 above.

## **7. NWSIA Track to Track Conversion Aid**

- 7.1. The attached spreadsheet enables the user to convert a 4LM VCC8 Track to the corresponding potentially relevant JL VCC4 Track, and vice versa.  
7.2. This tool provides guidance to assist in identifying potentially relevant track sections. However, it does not replace the need for comprehensive verification through formal and established methods.



NWSIA\_TRACK\_CON  
VERSION\_TOOL\_v1.x

7.3.

## **Appendix A – Approvals**



---

**Re: Updated TSR Guidance WGN**

---

**From** Matthew Hattersley <MatthewHattersley1@tfl.gov.uk>  
**Date** Tue 27/05/2025 07:36  
**To** Paul Taylor <PaulTaylor1@tfl.gov.uk>

Hi Paul,

No comments from me. Please take this as acceptance.

Thanks,  
Matt

TfL RESTRICTED

---

**From:** Paul Taylor <PaulTaylor1@tfl.gov.uk>  
**Sent:** 14 May 2025 07:14  
**To:** PERSAUD Ryan <ryan.persaud@urbanandmainlines.com>; Matthew Hattersley <MatthewHattersley1@tfl.gov.uk>; Peter Clifford <v\_PeterClifford@tube.tfl.gov.uk>; Hugh Williams <HughWilliams1@tfl.gov.uk>; Stuart Coomer <Stuart.Coomer@tube.tfl.gov.uk>; Ray Barrett <Ray.Barrett@tube.tfl.gov.uk>; Nimesh Darji <nimeshdarji@tfl.gov.uk>; Adrian Moorhouse <AdrianMoorhouse@tfl.gov.uk>; MORAR Shantilal <shanty.morar@urbanandmainlines.com>  
**Subject:** Re: Updated TSR Guidance WGN

Hi Ryan,

Thanks for the comments, updated in the attached.

Paul.

TfL RESTRICTED

---

**From:** PERSAUD Ryan <ryan.persaud@urbanandmainlines.com>  
**Sent:** 13 May 2025 15:33  
**To:** Paul Taylor <PaulTaylor1@tfl.gov.uk>; Matthew Hattersley <MatthewHattersley1@tfl.gov.uk>; Peter Clifford <v\_PeterClifford@tube.tfl.gov.uk>; Hugh Williams <HughWilliams1@tfl.gov.uk>; Stuart Coomer <Stuart.Coomer@tube.tfl.gov.uk>; Ray Barrett <Ray.Barrett@tube.tfl.gov.uk>; Nimesh Darji <nimeshdarji@tfl.gov.uk>; Adrian Moorhouse <AdrianMoorhouse@tfl.gov.uk>; MORAR Shantilal <shanty.morar@urbanandmainlines.com>  
**Subject:** RE: Updated TSR Guidance WGN

**Classified as: {Hitachi Rail – Public}**

Hi Paul,

A few comments:

- Neasden Platform 4 is missing track section 80548
- Southbound Depot Road Pseudo Station is missing track section 81108
- Northbound Depot Road Pseudo Station is missing track section 81194
- When looking at VCC9 stations, I also found that West Ham Siding incorrectly listed track section 91242 and should be replaced with 91167
- Section 4.1 – should the software version be updated to align with VCC8 revenue software version?
- Section 5.5.2 should also include SMA8

Regards,  
Ryan

TfL RESTRICTED

---

**From:** Paul Taylor <PaulTaylor1@tfl.gov.uk>  
**Sent:** Monday, May 12, 2025 9:45 AM  
**To:** HATTERSLEY Matthew - External <MatthewHattersley1@tfl.gov.uk>; Peter Clifford <v\_PeterClifford@tube.tfl.gov.uk>; Hugh Williams <HughWilliams1@tfl.gov.uk>; COOMER Stuart - External <Stuart.Coomer@tube.tfl.gov.uk>; Ray Barrett <Ray.Barrett@tube.tfl.gov.uk>; DARJI Nimesh - External <nimeshdarji@tfl.gov.uk>; PERSAUD Ryan <ryan.persaud@urbanandmainlines.com>; MOORHOUSE Adrian - External <AdrianMoorhouse@tfl.gov.uk>; MORAR Shantilal <shanty.morar@urbanandmainlines.com>  
**Subject:** Updated TSR Guidance WGN

All,

Please find attached for approval an updated TSR Guidance WGN for SMA8 operation.

Thanks,

Paul.

TfL RESTRICTED

This message has been scanned for malware by Forcepoint. [www.forcepoint.com](http://www.forcepoint.com)

{Hitachi Rail – Public}



---

## RE: Updated TSR Guidance WGN

---

**From** Peter Clifford <[v\\_PeterClifford@tube.tfl.gov.uk](mailto:v_PeterClifford@tube.tfl.gov.uk)>

**Date** Tue 27/05/2025 09:22

**To** Paul Taylor <[PaulTaylor1@tfl.gov.uk](mailto:PaulTaylor1@tfl.gov.uk)>

Paul,

I thought I had responded. No comments from me, please take this email as approval.

Regards

**Peter Clifford**  
**Signalling Principles Engineer**

4LM

Transport for London

5 Endeavour Square, 7<sup>th</sup> floor, 7R1. Westfield Avenue, Stratford, E20 1JN, UK

Mobile :- +44(0)7930858238

Email: [v\\_PeterClifford@tube.tfl.gov.uk](mailto:v_PeterClifford@tube.tfl.gov.uk)

---

## TfL RESTRICTED

**From:** Paul Taylor <[PaulTaylor1@tfl.gov.uk](mailto:PaulTaylor1@tfl.gov.uk)>

**Sent:** Tuesday, May 27, 2025 7:53 AM

**To:** Peter Clifford <[v\\_PeterClifford@tube.tfl.gov.uk](mailto:v_PeterClifford@tube.tfl.gov.uk)>; Hugh Williams <[HughWilliams1@tfl.gov.uk](mailto:HughWilliams1@tfl.gov.uk)>; Stuart Coomer <[Stuart.Coomer@tube.tfl.gov.uk](mailto:Stuart.Coomer@tube.tfl.gov.uk)>; Nimesh Darji <[nimeshdarji@tfl.gov.uk](mailto:nimeshdarji@tfl.gov.uk)>; Adrian Moorhouse <[AdrianMoorhouse@tfl.gov.uk](mailto:AdrianMoorhouse@tfl.gov.uk)>; MORAR Shantilal <[shanty.morar@urbanandmainlines.com](mailto:shanty.morar@urbanandmainlines.com)>

**Subject:** RE: Updated TSR Guidance WGN

Hi all,

Still outstanding your approvals for this. It is needed for this weekend.

Thanks,

Paul.

---

## TfL RESTRICTED

**From:** Paul Taylor <[PaulTaylor1@tfl.gov.uk](mailto:PaulTaylor1@tfl.gov.uk)>

**Sent:** Wednesday, May 14, 2025 7:14 AM

**To:** PERSAUD Ryan <[ryan.persaud@urbanandmainlines.com](mailto:ryan.persaud@urbanandmainlines.com)>; Matthew Hattersley <[MatthewHattersley1@tfl.gov.uk](mailto:MatthewHattersley1@tfl.gov.uk)>; Peter Clifford <[v\\_PeterClifford@tube.tfl.gov.uk](mailto:v_PeterClifford@tube.tfl.gov.uk)>; Hugh Williams <[HughWilliams1@tfl.gov.uk](mailto:HughWilliams1@tfl.gov.uk)>; Stuart Coomer <[Stuart.Coomer@tube.tfl.gov.uk](mailto:Stuart.Coomer@tube.tfl.gov.uk)>; Ray Barrett <[Ray.Barrett@tube.tfl.gov.uk](mailto:Ray.Barrett@tube.tfl.gov.uk)>; Nimesh Darji <[nimeshdarji@tfl.gov.uk](mailto:nimeshdarji@tfl.gov.uk)>; Adrian Moorhouse

<[AdrianMoorhouse@tfl.gov.uk](mailto:AdrianMoorhouse@tfl.gov.uk)>; MORAR Shantilal <[shanty.morar@urbanandmainlines.com](mailto:shanty.morar@urbanandmainlines.com)>  
**Subject:** Re: Updated TSR Guidance WGN

Hi Ryan,

Thanks for the comments, updated in the attached.

Paul.

---

**From:** PERSAUD Ryan <[ryan.persaud@urbanandmainlines.com](mailto:ryan.persaud@urbanandmainlines.com)>  
**Sent:** 13 May 2025 15:33  
**To:** Paul Taylor <[PaulTaylor1@tfl.gov.uk](mailto:PaulTaylor1@tfl.gov.uk)>; Peter Clifford <[v\\_PeterClifford@tube.tfl.gov.uk](mailto:v_PeterClifford@tube.tfl.gov.uk)>; Hugh Williams <[HughWilliams1@tfl.gov.uk](mailto:HughWilliams1@tfl.gov.uk)>; Stuart Coomer <[Stuart.Coomer@tube.tfl.gov.uk](mailto:Stuart.Coomer@tube.tfl.gov.uk)>; Ray Barrett <[Ray.Barrett@tube.tfl.gov.uk](mailto:Ray.Barrett@tube.tfl.gov.uk)>; Nimesh Darji <[nimeshdarji@tfl.gov.uk](mailto:nimeshdarji@tfl.gov.uk)>; Adrian Moorhouse <[AdrianMoorhouse@tfl.gov.uk](mailto:AdrianMoorhouse@tfl.gov.uk)>; MORAR Shantilal <[shanty.morar@urbanandmainlines.com](mailto:shanty.morar@urbanandmainlines.com)>  
**Subject:** RE: Updated TSR Guidance WGN

**Classified as: {Hitachi Rail – Public}**

Hi Paul,

A few comments:

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- Southbound Depot Road Pseudo Station is missing track section 81108
- Northbound Depot Road Pseudo Station is missing track section 81194
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- Section 5.5.2 should also include SMA8

Regards,  
Ryan

TfL RESTRICTED

---

**From:** Paul Taylor <[PaulTaylor1@tfl.gov.uk](mailto:PaulTaylor1@tfl.gov.uk)>  
**Sent:** Monday, May 12, 2025 9:45 AM  
**To:** HATTERSLEY Matthew - External <[MatthewHattersley1@tfl.gov.uk](mailto:MatthewHattersley1@tfl.gov.uk)>; Peter Clifford <[v\\_PeterClifford@tube.tfl.gov.uk](mailto:v_PeterClifford@tube.tfl.gov.uk)>; Hugh Williams <[HughWilliams1@tfl.gov.uk](mailto:HughWilliams1@tfl.gov.uk)>; COOMER Stuart - External <[Stuart.Coomer@tube.tfl.gov.uk](mailto:Stuart.Coomer@tube.tfl.gov.uk)>; Ray Barrett <[Ray.Barrett@tube.tfl.gov.uk](mailto:Ray.Barrett@tube.tfl.gov.uk)>; DARJI Nimesh - External <[nimeshdarji@tfl.gov.uk](mailto:nimeshdarji@tfl.gov.uk)>; PERSAUD Ryan <[ryan.persaud@urbanandmainlines.com](mailto:ryan.persaud@urbanandmainlines.com)>; MOORHOUSE Adrian - External <[AdrianMoorhouse@tfl.gov.uk](mailto:AdrianMoorhouse@tfl.gov.uk)>; MORAR Shantilal <[shanty.morar@urbanandmainlines.com](mailto:shanty.morar@urbanandmainlines.com)>  
**Subject:** Updated TSR Guidance WGN

All,

Please find attached for approval an updated TSR Guidance WGN for SMA8 operation.

Thanks,

Paul.

TfL RESTRICTED

This message has been scanned for malware by Forcepoint. [www.forcepoint.com](http://www.forcepoint.com)

**{Hitachi Rail – Public}**



## RE: Updated TSR Guidance WGN

**From** Hugh Williams <HughWilliams1@tfl.gov.uk>

**Date** Tue 27/05/2025 13:30

**To** Paul Taylor <PaulTaylor1@tfl.gov.uk>

Hi Paul, please take this email as acceptance of the updated guidance.

Many Thanks,  
Hugh

Hugh Williams | Programme Engineering Manager |  
Railway Systems Delivery | Four lines Modernisation | London Underground |  
5 Endeavour Square 3<sup>rd</sup> Floor 3B2, London, E20 1JN|  
Telephone: 07858 02 5689  
E-mail: [HughWilliams1@tfl.gov.uk](mailto:HughWilliams1@tfl.gov.uk)



## TfL RESTRICTED

**From:** Paul Taylor <PaulTaylor1@tfl.gov.uk>

**Sent:** Tuesday, May 27, 2025 7:53 AM

**To:** Peter Clifford <[v\\_PeterClifford@tube.tfl.gov.uk](mailto:v_PeterClifford@tube.tfl.gov.uk)>; Hugh Williams <HughWilliams1@tfl.gov.uk>; Stuart Coomer <[Stuart.Coomer@tube.tfl.gov.uk](mailto:Stuart.Coomer@tube.tfl.gov.uk)>; Nimesh Darji <[nimeshdarji@tfl.gov.uk](mailto:nimeshdarji@tfl.gov.uk)>; Adrian Moorhouse <[AdrianMoorhouse@tfl.gov.uk](mailto:AdrianMoorhouse@tfl.gov.uk)>; MORAR Shantilal <[shanty.morar@urbanandmainlines.com](mailto:shanty.morar@urbanandmainlines.com)>

**Subject:** RE: Updated TSR Guidance WGN

Hi all,

Still outstanding your approvals for this. It is needed for this weekend.

Thanks,

Paul.

## TfL RESTRICTED

**From:** Paul Taylor <[PaulTaylor1@tfl.gov.uk](mailto:PaulTaylor1@tfl.gov.uk)>

**Sent:** Wednesday, May 14, 2025 7:14 AM

**To:** PERSAUD Ryan <[ryan.persaud@urbanandmainlines.com](mailto:ryan.persaud@urbanandmainlines.com)>; Matthew Hattersley <[MatthewHattersley1@tfl.gov.uk](mailto:MatthewHattersley1@tfl.gov.uk)>; Peter Clifford <[v\\_PeterClifford@tube.tfl.gov.uk](mailto:v_PeterClifford@tube.tfl.gov.uk)>; Hugh Williams <[HughWilliams1@tfl.gov.uk](mailto:HughWilliams1@tfl.gov.uk)>; Stuart Coomer <[Stuart.Coomer@tube.tfl.gov.uk](mailto:Stuart.Coomer@tube.tfl.gov.uk)>; Ray Barrett <[Ray.Barrett@tube.tfl.gov.uk](mailto:Ray.Barrett@tube.tfl.gov.uk)>; Nimesh Darji <[nimeshdarji@tfl.gov.uk](mailto:nimeshdarji@tfl.gov.uk)>; Adrian Moorhouse

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**Subject:** Re: Updated TSR Guidance WGN

Hi Ryan,

Thanks for the comments, updated in the attached.

Paul.

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**From:** PERSAUD Ryan <[ryan.persaud@urbanandmainlines.com](mailto:ryan.persaud@urbanandmainlines.com)>  
**Sent:** 13 May 2025 15:33  
**To:** Paul Taylor <[PaulTaylor1@tfl.gov.uk](mailto:PaulTaylor1@tfl.gov.uk)>; Peter Clifford <[v\\_PeterClifford@tube.tfl.gov.uk](mailto:v_PeterClifford@tube.tfl.gov.uk)>; Hugh Williams <[HughWilliams1@tfl.gov.uk](mailto:HughWilliams1@tfl.gov.uk)>; Stuart Coomer <[Stuart.Coomer@tube.tfl.gov.uk](mailto:Stuart.Coomer@tube.tfl.gov.uk)>; Ray Barrett <[Ray.Barrett@tube.tfl.gov.uk](mailto:Ray.Barrett@tube.tfl.gov.uk)>; Nimesh Darji <[nimeshdarji@tfl.gov.uk](mailto:nimeshdarji@tfl.gov.uk)>; Adrian Moorhouse <[AdrianMoorhouse@tfl.gov.uk](mailto:AdrianMoorhouse@tfl.gov.uk)>; MORAR Shantilal <[shanty.morar@urbanandmainlines.com](mailto:shanty.morar@urbanandmainlines.com)>  
**Subject:** RE: Updated TSR Guidance WGN

**Classified as: {Hitachi Rail – Public}**

Hi Paul,

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- Section 5.5.2 should also include SMA8

Regards,  
Ryan

TfL RESTRICTED

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**From:** Paul Taylor <[PaulTaylor1@tfl.gov.uk](mailto:PaulTaylor1@tfl.gov.uk)>  
**Sent:** Monday, May 12, 2025 9:45 AM  
**To:** HATTERSLEY Matthew - External <[MatthewHattersley1@tfl.gov.uk](mailto:MatthewHattersley1@tfl.gov.uk)>; Peter Clifford <[v\\_PeterClifford@tube.tfl.gov.uk](mailto:v_PeterClifford@tube.tfl.gov.uk)>; Hugh Williams <[HughWilliams1@tfl.gov.uk](mailto:HughWilliams1@tfl.gov.uk)>; COOMER Stuart - External <[Stuart.Coomer@tube.tfl.gov.uk](mailto:Stuart.Coomer@tube.tfl.gov.uk)>; Ray Barrett <[Ray.Barrett@tube.tfl.gov.uk](mailto:Ray.Barrett@tube.tfl.gov.uk)>; DARJI Nimesh - External <[nimeshdarji@tfl.gov.uk](mailto:nimeshdarji@tfl.gov.uk)>; PERSAUD Ryan <[ryan.persaud@urbanandmainlines.com](mailto:ryan.persaud@urbanandmainlines.com)>; MOORHOUSE Adrian - External <[AdrianMoorhouse@tfl.gov.uk](mailto:AdrianMoorhouse@tfl.gov.uk)>; MORAR Shantilal <[shanty.morar@urbanandmainlines.com](mailto:shanty.morar@urbanandmainlines.com)>  
**Subject:** Updated TSR Guidance WGN

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Paul.

TfL RESTRICTED

This message has been scanned for malware by Forcepoint. [www.forcepoint.com](http://www.forcepoint.com)

**{Hitachi Rail – Public}**



## RE: Updated TSR Guidance WGN

**From** Stuart Coomer <Stuart.Coomer@tube.tfl.gov.uk>

**Date** Tue 27/05/2025 10:23

**To** Paul Taylor <PaulTaylor1@tfl.gov.uk>; Peter Clifford <v\_PeterClifford@tube.tfl.gov.uk>; Hugh Williams <HughWilliams1@tfl.gov.uk>; Nimesh Darji <nimeshdarji@tfl.gov.uk>; Adrian Moorhouse <AdrianMoorhouse@tfl.gov.uk>; MORAR Shantilal <shanty.morar@urbanandmainlines.com>

Paul,

I'm happy with this.

As discussed separately – there are a couple of very minor typos to correct when the WGN is next updated.

Thanks,

Stuart Coomer

Principal Engineer (Road & Rail Traffic Control Systems)

4LM Railway Systems Integration

4 Lines Modernisation Programme | London Underground

Hybrid Working / 3<sup>rd</sup> Floor, Blue Zone (3B4), 5 Endeavour Square, London E20 1JN

Mobile: 07909 692 814

### Some handy links for 4LM:

Systems Integration Sharepoint: <https://transportforlondon.sharepoint.com/sites/4LMSystemIntegration>

Sponsor's instructions: <https://docmanager.onelondon.tfl.local/livelink/lisapi.dll?func=ll&objId=210324935&objAction=browse&sort=name&viewType=1>

Works Information (Working Copy incorporating PMIs): <https://docmanager.onelondon.tfl.local/livelink/lisapi.dll?func=ll&objId=367490200&objAction=browse&sort=-modifydate&viewType=1>

Works Information (Contract Award): <https://docmanager.onelondon.tfl.local/livelink/lisapi.dll?func=ll&objId=329035996&objAction=browse&viewType=1>

Signalling Principles: [Signalling Principles](#)

Performance Management: <https://linkdms.mr.int/livelink/livelink.exe?func=ll&objId=61363017&objAction=browse&viewType=1>

Baseline Tracker: <https://docmanager.onelondon.tfl.local/livelink/lisapi.dll?func=ll&objaction=overview&objid=377028561>

4LM Project Planning:

<https://transportforlondon.sharepoint.com/sites/fourlinesmodernisation4lm/SitePages/Info-Map.aspx>

Risk Management: <https://arm2020.onelondon.tfl.local/arm/>

Working Group Notice (WGN) Template: <https://docmanager.onelondon.tfl.local/livelink/lisapi.dll?func=ll&objaction=overview&objid=347282133>

## TfL RESTRICTED

**From:** Paul Taylor <PaulTaylor1@tfl.gov.uk>

**Sent:** Tuesday, May 27, 2025 7:53 AM

**To:** Peter Clifford <v\_PeterClifford@tube.tfl.gov.uk>; Hugh Williams <HughWilliams1@tfl.gov.uk>; Stuart Coomer <Stuart.Coomer@tube.tfl.gov.uk>; Nimesh Darji <nimeshdarji@tfl.gov.uk>; Adrian Moorhouse <AdrianMoorhouse@tfl.gov.uk>; MORAR Shantilal

<shanty.morar@urbanandmainlines.com>

**Subject:** RE: Updated TSR Guidance WGN

Hi all,

Still outstanding your approvals for this. It is needed for this weekend.

Thanks,

Paul.

---

## TfL RESTRICTED

**From:** Paul Taylor <[PaulTaylor1@tfl.gov.uk](mailto:PaulTaylor1@tfl.gov.uk)>

**Sent:** Wednesday, May 14, 2025 7:14 AM

**To:** PERSAUD Ryan <[ryan.persaud@urbanandmainlines.com](mailto:ryan.persaud@urbanandmainlines.com)>; Matthew Hattersley <[MatthewHattersley1@tfl.gov.uk](mailto:MatthewHattersley1@tfl.gov.uk)>; Peter Clifford <[v\\_PeterClifford@tube.tfl.gov.uk](mailto:v_PeterClifford@tube.tfl.gov.uk)>; Hugh Williams <[HughWilliams1@tfl.gov.uk](mailto:HughWilliams1@tfl.gov.uk)>; Stuart Coomer <[Stuart.Coomer@tube.tfl.gov.uk](mailto:Stuart.Coomer@tube.tfl.gov.uk)>; Ray Barrett <[Ray.Barrett@tube.tfl.gov.uk](mailto:Ray.Barrett@tube.tfl.gov.uk)>; Nimesh Darji <[nimeshdarji@tfl.gov.uk](mailto:nimeshdarji@tfl.gov.uk)>; Adrian Moorhouse <[AdrianMoorhouse@tfl.gov.uk](mailto:AdrianMoorhouse@tfl.gov.uk)>; MORAR Shantilal <[shanty.morar@urbanandmainlines.com](mailto:shanty.morar@urbanandmainlines.com)>

**Subject:** Re: Updated TSR Guidance WGN

Hi Ryan,

Thanks for the comments, updated in the attached.

Paul.

---

**From:** PERSAUD Ryan <[ryan.persaud@urbanandmainlines.com](mailto:ryan.persaud@urbanandmainlines.com)>

**Sent:** 13 May 2025 15:33

**To:** Paul Taylor <[PaulTaylor1@tfl.gov.uk](mailto:PaulTaylor1@tfl.gov.uk)>; Matthew Hattersley <[MatthewHattersley1@tfl.gov.uk](mailto:MatthewHattersley1@tfl.gov.uk)>; Peter Clifford <[v\\_PeterClifford@tube.tfl.gov.uk](mailto:v_PeterClifford@tube.tfl.gov.uk)>; Hugh Williams <[HughWilliams1@tfl.gov.uk](mailto:HughWilliams1@tfl.gov.uk)>; Stuart Coomer <[Stuart.Coomer@tube.tfl.gov.uk](mailto:Stuart.Coomer@tube.tfl.gov.uk)>; Ray Barrett <[Ray.Barrett@tube.tfl.gov.uk](mailto:Ray.Barrett@tube.tfl.gov.uk)>; Nimesh Darji <[nimeshdarji@tfl.gov.uk](mailto:nimeshdarji@tfl.gov.uk)>; Adrian Moorhouse <[AdrianMoorhouse@tfl.gov.uk](mailto:AdrianMoorhouse@tfl.gov.uk)>; MORAR Shantilal <[shanty.morar@urbanandmainlines.com](mailto:shanty.morar@urbanandmainlines.com)>

**Subject:** RE: Updated TSR Guidance WGN

**Classified as: {Hitachi Rail – Public}**

Hi Paul,

A few comments:

- Neasden Platform 4 is missing track section 80548
- Southbound Depot Road Pseudo Station is missing track section 81108
- Northbound Depot Road Pseudo Station is missing track section 81194
- When looking at VCC9 stations, I also found that West Ham Siding incorrectly listed track section 91242 and should be replaced with 91167
- Section 4.1 – should the software version be updated to align with VCC8 revenue software version?
- Section 5.5.2 should also include SMA8

Regards,

Ryan

## TfL RESTRICTED

**From:** Paul Taylor <[PaulTaylor1@tfl.gov.uk](mailto:PaulTaylor1@tfl.gov.uk)>  
**Sent:** Monday, May 12, 2025 9:45 AM  
**To:** HATTERSLEY Matthew - External <[MatthewHattersley1@tfl.gov.uk](mailto:MatthewHattersley1@tfl.gov.uk)>; Peter Clifford <[v\\_PeterClifford@tube.tfl.gov.uk](mailto:v_PeterClifford@tube.tfl.gov.uk)>; Hugh Williams <[HughWilliams1@tfl.gov.uk](mailto:HughWilliams1@tfl.gov.uk)>; COOMER Stuart - External <[Stuart.Coomer@tube.tfl.gov.uk](mailto:Stuart.Coomer@tube.tfl.gov.uk)>; Ray Barrett <[Ray.Barrett@tube.tfl.gov.uk](mailto:Ray.Barrett@tube.tfl.gov.uk)>; DARJI Nimesh - External <[nimeshdarji@tfl.gov.uk](mailto:nimeshdarji@tfl.gov.uk)>; PERSAUD Ryan <[ryan.persaud@urbanandmainlines.com](mailto:ryan.persaud@urbanandmainlines.com)>; MOORHOUSE Adrian - External <[AdrianMoorhouse@tfl.gov.uk](mailto:AdrianMoorhouse@tfl.gov.uk)>; MORAR Shantilal <[shanty.morar@urbanandmainlines.com](mailto:shanty.morar@urbanandmainlines.com)>  
**Subject:** Updated TSR Guidance WGN

All,

Please find attached for approval an updated TSR Guidance WGN for SMA8 operation.

Thanks,

Paul.

## TfL RESTRICTED

This message has been scanned for malware by Forcepoint. [www.forcepoint.com](http://www.forcepoint.com)

{Hitachi Rail – Public}



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**RE: Updated TSR Guidance WGN**

---

**From** Ray Barrett <Ray.Barrett@tube.tfl.gov.uk>  
**Date** Wed 14/05/2025 16:55  
**To** Paul Taylor <PaulTaylor1@tfl.gov.uk>

No comments from me

Thanks,

Ray

---

**TfL RESTRICTED**

**From:** Paul Taylor <PaulTaylor1@tfl.gov.uk>  
**Sent:** Wednesday, May 14, 2025 7:14 AM  
**To:** PERSAUD Ryan <ryan.persaud@urbanandmainlines.com>; Matthew Hattersley <MatthewHattersley1@tfl.gov.uk>; Peter Clifford <v\_PeterClifford@tube.tfl.gov.uk>; Hugh Williams <HughWilliams1@tfl.gov.uk>; Stuart Coomer <Stuart.Coomer@tube.tfl.gov.uk>; Ray Barrett <Ray.Barrett@tube.tfl.gov.uk>; Nimesh Darji <nimeshdarji@tfl.gov.uk>; Adrian Moorhouse <AdrianMoorhouse@tfl.gov.uk>; MORAR Shantilal <shanty.morar@urbanandmainlines.com>  
**Subject:** Re: Updated TSR Guidance WGN

Hi Ryan,

Thanks for the comments, updated in the attached.

Paul.

**TfL RESTRICTED**

---

**From:** PERSAUD Ryan <[ryan.persaud@urbanandmainlines.com](mailto:ryan.persaud@urbanandmainlines.com)>  
**Sent:** 13 May 2025 15:33  
**To:** Paul Taylor <[PaulTaylor1@tfl.gov.uk](mailto:PaulTaylor1@tfl.gov.uk)>; Matthew Hattersley <[MatthewHattersley1@tfl.gov.uk](mailto:MatthewHattersley1@tfl.gov.uk)>; Peter Clifford <[v\\_PeterClifford@tube.tfl.gov.uk](mailto:v_PeterClifford@tube.tfl.gov.uk)>; Hugh Williams <[HughWilliams1@tfl.gov.uk](mailto:HughWilliams1@tfl.gov.uk)>; Stuart Coomer <[Stuart.Coomer@tube.tfl.gov.uk](mailto:Stuart.Coomer@tube.tfl.gov.uk)>; Ray Barrett <[Ray.Barrett@tube.tfl.gov.uk](mailto:Ray.Barrett@tube.tfl.gov.uk)>; Nimesh Darji <[nimeshdarji@tfl.gov.uk](mailto:nimeshdarji@tfl.gov.uk)>; Adrian Moorhouse <[AdrianMoorhouse@tfl.gov.uk](mailto:AdrianMoorhouse@tfl.gov.uk)>; MORAR Shantilal <[shanty.morar@urbanandmainlines.com](mailto:shanty.morar@urbanandmainlines.com)>  
**Subject:** RE: Updated TSR Guidance WGN

**Classified as: {Hitachi Rail – Public}**

Hi Paul,

A few comments:

- Neasden Platform 4 is missing track section 80548
- Southbound Depot Road Pseudo Station is missing track section 81108

- Northbound Depot Road Pseudo Station is missing track section 81194
- When looking at VCC9 stations, I also found that West Ham Siding incorrectly listed track section 91242 and should be replaced with 91167
- Section 4.1 – should the software version be updated to align with VCC8 revenue software version?
- Section 5.5.2 should also include SMA8

Regards,  
Ryan

## TfL RESTRICTED

**From:** Paul Taylor <[PaulTaylor1@tfl.gov.uk](mailto:PaulTaylor1@tfl.gov.uk)>

**Sent:** Monday, May 12, 2025 9:45 AM

**To:** HATTERSLEY Matthew - External <[MatthewHattersley1@tfl.gov.uk](mailto:MatthewHattersley1@tfl.gov.uk)>; Peter Clifford <[PeterClifford@tube.tfl.gov.uk](mailto:PeterClifford@tube.tfl.gov.uk)>; Hugh Williams <[HughWilliams1@tfl.gov.uk](mailto:HughWilliams1@tfl.gov.uk)>; COOMER Stuart - External <[Stuart.Coomer@tube.tfl.gov.uk](mailto:Stuart.Coomer@tube.tfl.gov.uk)>; Ray Barrett <[Ray.Barrett@tube.tfl.gov.uk](mailto:Ray.Barrett@tube.tfl.gov.uk)>; DARJI Nimesh - External <[nimeshdarji@tfl.gov.uk](mailto:nimeshdarji@tfl.gov.uk)>; PERSAUD Ryan <[ryan.persaud@urbanandmainlines.com](mailto:ryan.persaud@urbanandmainlines.com)>; MOORHOUSE Adrian - External <[AdrianMoorhouse@tfl.gov.uk](mailto:AdrianMoorhouse@tfl.gov.uk)>; MORAR Shantilal <[shanty.morar@urbanandmainlines.com](mailto:shanty.morar@urbanandmainlines.com)>

**Subject:** Updated TSR Guidance WGN

All,

Please find attached for approval an updated TSR Guidance WGN for SMA8 operation.

Thanks,

Paul.

## TfL RESTRICTED

This message has been scanned for malware by Forcepoint. [www.forcepoint.com](http://www.forcepoint.com)

{Hitachi Rail – Public}



---

**RE: Updated TSR Guidance WGN**

---

**From** Niall Gavaghan <Niall.Gavaghan@tube.tfl.gov.uk>

**Date** Fri 30/05/2025 13:00

**To** Paul Taylor <PaulTaylor1@tfl.gov.uk>

Thanks Paul

All looks good

Kind regards,

**Niall Gavaghan**

Signalling System Manager | Signal Incident Response

Phone: 020 7027 3191 (auto 53191) | Mobile: 07764856530 (auto-mobile 20249)

Hammersmith SCC, Trussley Road, London W6 7PR | Email: [niall.gavaghan@tube.tfl.gov.uk](mailto:niall.gavaghan@tube.tfl.gov.uk)



---

**TfL RESTRICTED**

**From:** Paul Taylor <PaulTaylor1@tfl.gov.uk>

**Sent:** Friday, May 30, 2025 10:08 AM

**To:** Niall Gavaghan <Niall.Gavaghan@tube.tfl.gov.uk>

**Subject:** Fw: Updated TSR Guidance WGN

Hi Niall,

I've received the attached spreadsheets, one for section 6 and one for the new section 7 and the attached version. Are you ok to pp for Nimesh?

Thanks,

Paul.

---

**TfL RESTRICTED**

**From:** Adrian Moorhouse <[AdrianMoorhouse@tfl.gov.uk](mailto:AdrianMoorhouse@tfl.gov.uk)>

**Sent:** 30 May 2025 09:52

**To:** Paul Taylor <[PaulTaylor1@tfl.gov.uk](mailto:PaulTaylor1@tfl.gov.uk)>

**Subject:** RE: Updated TSR Guidance WGN

Hi Paul,

Can we please add the below new section to the TSR WGN to cover the NWSIA Track to Track Conversion:

**7. NWSIA Track to Track Conversion Aid**

7.1 The attached spreadsheet enables the user to convert a 4LM VCC8 Track to the corresponding potentially

relevant JL VCC4 Track, and vice versa.

7.2 This tool provides guidance to assist in identifying potentially relevant track sections. However, it does not replace the need for comprehensive verification through formal and established methods.

Spreadsheet attached.

No other comments – happy to accept once this is included.

Regards,

Adrian

### **Adrian Moorhouse CEng MIET MIRSE**

System Design Authority, Principal CBTC Engineer | 4 Lines Modernisation Programme

3<sup>rd</sup> Floor (Y1), 5 Endeavour Square, London E20 1JN

Telephone: 63309 | Mobile: 07872 049475

E-mail: [adrianmoorhouse@tfl.gov.uk](mailto:adrianmoorhouse@tfl.gov.uk)



### **TfL RESTRICTED**

**From:** Nimesh Darji <[nimeshdarji@tfl.gov.uk](mailto:nimeshdarji@tfl.gov.uk)>

**Sent:** Monday, May 19, 2025 12:12 PM

**To:** Paul Taylor <[PaulTaylor1@tfl.gov.uk](mailto:PaulTaylor1@tfl.gov.uk)>; Adrian Moorhouse <[AdrianMoorhouse@tfl.gov.uk](mailto:AdrianMoorhouse@tfl.gov.uk)>

**Subject:** FW: Updated TSR Guidance WGN

Hi Both,

Can we add the MET/JUB Track conversion to this aswell please?

Kind Regards,

Nimesh.R.Darji Eng Tech



Signals Asset Delivery |

Operational Readiness | London Underground |

2<sup>nd</sup> Floor, Room 211, 280 Old Marylebone Road, NW1 5RJ|

Telephone: 07590484082 | Auto: 41804 |

5ES Stratford Auto: 82259|

E-mail: [nimeshdarji@tfl.gov.uk](mailto:nimeshdarji@tfl.gov.uk)

Please contact me via mobile, MS Teams or Email



Please note that whilst I may send emails in the evening or at the weekend, I do not expect you to respond outside of your normal working hours.

 Please consider the environment before printing this e-mail

### **TfL RESTRICTED**

**From:** Paul Taylor <[PaulTaylor1@tfl.gov.uk](mailto:PaulTaylor1@tfl.gov.uk)>

**Sent:** Wednesday, May 14, 2025 7:14 AM

**To:** PERSAUD Ryan <[ryan.persaud@urbanandmainlines.com](mailto:ryan.persaud@urbanandmainlines.com)>; Matthew Hattersley <[MatthewHattersley1@tfl.gov.uk](mailto:MatthewHattersley1@tfl.gov.uk)>; Peter Clifford <[v\\_PeterClifford@tube.tfl.gov.uk](mailto:v_PeterClifford@tube.tfl.gov.uk)>; Hugh Williams <[HughWilliams1@tfl.gov.uk](mailto:HughWilliams1@tfl.gov.uk)>; Stuart Coomer <[Stuart.Coomer@tube.tfl.gov.uk](mailto:Stuart.Coomer@tube.tfl.gov.uk)>; Ray Barrett <[Ray.Barrett@tube.tfl.gov.uk](mailto:Ray.Barrett@tube.tfl.gov.uk)>; Nimesh Darji <[nimeshdarji@tfl.gov.uk](mailto:nimeshdarji@tfl.gov.uk)>; Adrian Moorhouse <[AdrianMoorhouse@tfl.gov.uk](mailto:AdrianMoorhouse@tfl.gov.uk)>; MORAR Shantilal <[shanty.morar@urbanandmainlines.com](mailto:shanty.morar@urbanandmainlines.com)>

**Subject:** Re: Updated TSR Guidance WGN

Hi Ryan,

Thanks for the comments, updated in the attached.

Paul.

TfL RESTRICTED

---

**From:** PERSAUD Ryan <[ryan.persaud@urbanandmainlines.com](mailto:ryan.persaud@urbanandmainlines.com)>

**Sent:** 13 May 2025 15:33

**To:** Paul Taylor <[PaulTaylor1@tfl.gov.uk](mailto:PaulTaylor1@tfl.gov.uk)>; Matthew Hattersley <[MatthewHattersley1@tfl.gov.uk](mailto:MatthewHattersley1@tfl.gov.uk)>; Peter Clifford <[v\\_PeterClifford@tube.tfl.gov.uk](mailto:v_PeterClifford@tube.tfl.gov.uk)>; Hugh Williams <[HughWilliams1@tfl.gov.uk](mailto:HughWilliams1@tfl.gov.uk)>; Stuart Coomer <[Stuart.Coomer@tube.tfl.gov.uk](mailto:Stuart.Coomer@tube.tfl.gov.uk)>; Ray Barrett <[Ray.Barrett@tube.tfl.gov.uk](mailto:Ray.Barrett@tube.tfl.gov.uk)>; Nimesh Darji <[nimeshdarji@tfl.gov.uk](mailto:nimeshdarji@tfl.gov.uk)>; Adrian Moorhouse <[AdrianMoorhouse@tfl.gov.uk](mailto:AdrianMoorhouse@tfl.gov.uk)>; MORAR Shantilal <[shanty.morar@urbanandmainlines.com](mailto:shanty.morar@urbanandmainlines.com)>

**Subject:** RE: Updated TSR Guidance WGN

**Classified as: {Hitachi Rail – Public}**

Hi Paul,

A few comments:

- Neasden Platform 4 is missing track section 80548
- Southbound Depot Road Pseudo Station is missing track section 81108
- Northbound Depot Road Pseudo Station is missing track section 81194
- When looking at VCC9 stations, I also found that West Ham Siding incorrectly listed track section 91242 and should be replaced with 91167
- Section 4.1 – should the software version be updated to align with VCC8 revenue software version?
- Section 5.5.2 should also include SMA8

Regards,

Ryan

TfL RESTRICTED

---

**From:** Paul Taylor <[PaulTaylor1@tfl.gov.uk](mailto:PaulTaylor1@tfl.gov.uk)>

**Sent:** Monday, May 12, 2025 9:45 AM

**To:** HATTERSLEY Matthew - External <[MatthewHattersley1@tfl.gov.uk](mailto:MatthewHattersley1@tfl.gov.uk)>; Peter Clifford <[v\\_PeterClifford@tube.tfl.gov.uk](mailto:v_PeterClifford@tube.tfl.gov.uk)>; Hugh Williams <[HughWilliams1@tfl.gov.uk](mailto:HughWilliams1@tfl.gov.uk)>; COOMER Stuart - External <[Stuart.Coomer@tube.tfl.gov.uk](mailto:Stuart.Coomer@tube.tfl.gov.uk)>; Ray Barrett <[Ray.Barrett@tube.tfl.gov.uk](mailto:Ray.Barrett@tube.tfl.gov.uk)>; DARJI Nimesh - External <[nimeshdarji@tfl.gov.uk](mailto:nimeshdarji@tfl.gov.uk)>; PERSAUD Ryan <[ryan.persaud@urbanandmainlines.com](mailto:ryan.persaud@urbanandmainlines.com)>; MOORHOUSE Adrian - External <[AdrianMoorhouse@tfl.gov.uk](mailto:AdrianMoorhouse@tfl.gov.uk)>; MORAR Shantilal <[shanty.morar@urbanandmainlines.com](mailto:shanty.morar@urbanandmainlines.com)>

**Subject:** Updated TSR Guidance WGN

All,

Please find attached for approval an updated TSR Guidance WGN for SMA8 operation.

Thanks,

Paul.

TfL RESTRICTED

This message has been scanned for malware by Forcepoint. [www.forcepoint.com](http://www.forcepoint.com)

{Hitachi Rail – Public}



---

**RE: Updated TSR Guidance WGN**

---

**From** PERSAUD Ryan <ryan.persaud@urbanandmainlines.com>

**Date** Wed 21/05/2025 19:37

**To** Paul Taylor <PaulTaylor1@tfl.gov.uk>; Matthew Hattersley <MatthewHattersley1@tfl.gov.uk>; Peter Clifford <v\_PeterClifford@tube.tfl.gov.uk>; Hugh Williams <HughWilliams1@tfl.gov.uk>; Stuart Coomer <Stuart.Coomer@tube.tfl.gov.uk>; Ray Barrett <Ray.Barrett@tube.tfl.gov.uk>; Nimesh Darji <nimeshdarji@tfl.gov.uk>; Adrian Moorhouse <AdrianMoorhouse@tfl.gov.uk>; MORAR Shantilal <shanty.morar@urbanandmainlines.com>

**Classified as: {Hitachi Rail – Public}**

Hi Paul,

Apologies for the late response, all my comments have been addressed, and no further comments.

Regards,  
Ryan

---

TfL RESTRICTED

**From:** Paul Taylor <PaulTaylor1@tfl.gov.uk>

**Sent:** Wednesday, May 14, 2025 2:14 AM

**To:** PERSAUD Ryan <ryan.persaud@urbanandmainlines.com>; HATTERSLEY Matthew - External <MatthewHattersley1@tfl.gov.uk>; Peter Clifford <v\_PeterClifford@tube.tfl.gov.uk>; Hugh Williams <HughWilliams1@tfl.gov.uk>; COOMER Stuart - External <Stuart.Coomer@tube.tfl.gov.uk>; Ray Barrett <Ray.Barrett@tube.tfl.gov.uk>; DARJI Nimesh - External <nimeshdarji@tfl.gov.uk>; MOORHOUSE Adrian - External <AdrianMoorhouse@tfl.gov.uk>; MORAR Shantilal <shanty.morar@urbanandmainlines.com>  
**Subject:** Re: Updated TSR Guidance WGN

You don't often get email from [paultaylor1@tfl.gov.uk](mailto:paultaylor1@tfl.gov.uk). [Learn why this is important](#)

**Classified as: {Hitachi Rail – Public}**

Hi Ryan,

Thanks for the comments, updated in the attached.

Paul.

---

TfL RESTRICTED

**{Hitachi Rail – Public}**

---

**From:** PERSAUD Ryan <[ryan.persaud@urbanandmainlines.com](mailto:ryan.persaud@urbanandmainlines.com)>

**Sent:** 13 May 2025 15:33

**To:** Paul Taylor <[PaulTaylor1@tfl.gov.uk](mailto:PaulTaylor1@tfl.gov.uk)>; Matthew Hattersley <[MatthewHattersley1@tfl.gov.uk](mailto:MatthewHattersley1@tfl.gov.uk)>; Peter Clifford <[v\\_PeterClifford@tube.tfl.gov.uk](mailto:v_PeterClifford@tube.tfl.gov.uk)>; Hugh Williams <[HughWilliams1@tfl.gov.uk](mailto:HughWilliams1@tfl.gov.uk)>; Stuart Coomer <[Stuart.Coomer@tube.tfl.gov.uk](mailto:Stuart.Coomer@tube.tfl.gov.uk)>; Ray Barrett <[Ray.Barrett@tube.tfl.gov.uk](mailto:Ray.Barrett@tube.tfl.gov.uk)>; Nimesh Darji

<[nimeshdarji@tfl.gov.uk](mailto:nimeshdarji@tfl.gov.uk)>; Adrian Moorhouse <[AdrianMoorhouse@tfl.gov.uk](mailto:AdrianMoorhouse@tfl.gov.uk)>; MORAR Shantilal

<[shanty.morar@urbanandmainlines.com](mailto:shanty.morar@urbanandmainlines.com)>

**Subject:** RE: Updated TSR Guidance WGN

**Classified as: {Hitachi Rail – Public}**

Hi Paul,

A few comments:

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- Section 5.5.2 should also include SMA8

Regards,  
Ryan

TfL RESTRICTED

---

**From:** Paul Taylor <[PaulTaylor1@tfl.gov.uk](mailto:PaulTaylor1@tfl.gov.uk)>

**Sent:** Monday, May 12, 2025 9:45 AM

**To:** HATTERSLEY Matthew - External <[MatthewHattersley1@tfl.gov.uk](mailto:MatthewHattersley1@tfl.gov.uk)>; Peter Clifford

<[v\\_PeterClifford@tube.tfl.gov.uk](mailto:v_PeterClifford@tube.tfl.gov.uk)>; Hugh Williams <[HughWilliams1@tfl.gov.uk](mailto:HughWilliams1@tfl.gov.uk)>; COOMER Stuart - External <[Stuart.Coomer@tube.tfl.gov.uk](mailto:Stuart.Coomer@tube.tfl.gov.uk)>; Ray Barrett <[Ray.Barrett@tube.tfl.gov.uk](mailto:Ray.Barrett@tube.tfl.gov.uk)>; DARJI Nimesh - External <[nimeshdarji@tfl.gov.uk](mailto:nimeshdarji@tfl.gov.uk)>; PERSAUD Ryan <[ryan.persaud@urbanandmainlines.com](mailto:ryan.persaud@urbanandmainlines.com)>; MOORHOUSE Adrian - External <[AdrianMoorhouse@tfl.gov.uk](mailto:AdrianMoorhouse@tfl.gov.uk)>; MORAR Shantilal <[shanty.morar@urbanandmainlines.com](mailto:shanty.morar@urbanandmainlines.com)>

**Subject:** Updated TSR Guidance WGN

All,

Please find attached for approval an updated TSR Guidance WGN for SMA8 operation.

Thanks,

Paul.

TfL RESTRICTED

This message has been scanned for malware by Forcepoint. [www.forcepoint.com](http://www.forcepoint.com)

**{Hitachi Rail – Public}**

**{Hitachi Rail – Public}**



## RE: Updated TSR Guidance WGN

**From** Adrian Moorhouse <AdrianMoorhouse@tfl.gov.uk>

**Date** Fri 30/05/2025 09:52

**To** Paul Taylor <PaulTaylor1@tfl.gov.uk>

📎 1 attachment (39 KB)

NWSIA\_TRACK\_CONVERSION\_TOOL\_v1.xlsx;

Hi Paul,

Can we please add the below new section to the TSR WGN to cover the NWSIA Track to Track Conversion:

### 7. NWSIA Track to Track Conversion Aid

7.1 The attached spreadsheet enables the user to convert a 4LM VCC8 Track to the corresponding potentially relevant JL VCC4 Track, and vice versa.

7.2 This tool provides guidance to assist in identifying potentially relevant track sections. However, it does not replace the need for comprehensive verification through formal and established methods.

Spreadsheet attached.

No other comments – happy to accept once this is included.

Regards,

Adrian

### Adrian Moorhouse CEng MIET MIRSE

System Design Authority, Principal CBTC Engineer | 4 Lines Modernisation Programme

3<sup>rd</sup> Floor (Y1), 5 Endeavour Square, London E20 1JN

Telephone: 63309 | Mobile: 07872 049475

E-mail: [adrianmoorhouse@tfl.gov.uk](mailto:adrianmoorhouse@tfl.gov.uk)



## TfL RESTRICTED

**From:** Nimesh Darji <nimeshdarji@tfl.gov.uk>

**Sent:** Monday, May 19, 2025 12:12 PM

**To:** Paul Taylor <PaulTaylor1@tfl.gov.uk>; Adrian Moorhouse <AdrianMoorhouse@tfl.gov.uk>

**Subject:** FW: Updated TSR Guidance WGN

Hi Both,

Can we add the MET/JUB Track conversion to this aswell please?

Kind Regards,

**Nimesh.R.Darji Eng Tech**

Signals Asset Delivery |  
 Operational Readiness | London Underground |  
 2<sup>nd</sup> Floor, Room 211, 280 Old Marylebone Road, NW1 5RJ |  
 Telephone: 07590484082 | Auto: 41804 |  
 5ES Stratford Auto: 82259 |  
 E-mail: [nimeshdarji@tfl.gov.uk](mailto:nimeshdarji@tfl.gov.uk)

Please contact me via mobile, MS Teams or Email



Please note that whilst I may send emails in the evening or at the weekend, I do not expect you to respond outside of your normal working hours.

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## TfL RESTRICTED

**From:** Paul Taylor <[PaulTaylor1@tfl.gov.uk](mailto:PaulTaylor1@tfl.gov.uk)>  
**Sent:** Wednesday, May 14, 2025 7:14 AM  
**To:** PERSAUD Ryan <[ryan.persaud@urbanandmainlines.com](mailto:ryan.persaud@urbanandmainlines.com)>; Matthew Hattersley <[MatthewHattersley1@tfl.gov.uk](mailto:MatthewHattersley1@tfl.gov.uk)>; Peter Clifford <[v\\_PeterClifford@tube.tfl.gov.uk](mailto:v_PeterClifford@tube.tfl.gov.uk)>; Hugh Williams <[HughWilliams1@tfl.gov.uk](mailto:HughWilliams1@tfl.gov.uk)>; Stuart Coomer <[Stuart.Coomer@tube.tfl.gov.uk](mailto:Stuart.Coomer@tube.tfl.gov.uk)>; Ray Barrett <[Ray.Barrett@tube.tfl.gov.uk](mailto:Ray.Barrett@tube.tfl.gov.uk)>; Nimesh Darji <[nimeshdarji@tfl.gov.uk](mailto:nimeshdarji@tfl.gov.uk)>; Adrian Moorhouse <[AdrianMoorhouse@tfl.gov.uk](mailto:AdrianMoorhouse@tfl.gov.uk)>; MORAR Shantilal <[shanty.morar@urbanandmainlines.com](mailto:shanty.morar@urbanandmainlines.com)>  
**Subject:** Re: Updated TSR Guidance WGN

Hi Ryan,

Thanks for the comments, updated in the attached.

Paul.

## TfL RESTRICTED

**From:** PERSAUD Ryan <[ryan.persaud@urbanandmainlines.com](mailto:ryan.persaud@urbanandmainlines.com)>  
**Sent:** 13 May 2025 15:33  
**To:** Paul Taylor <[PaulTaylor1@tfl.gov.uk](mailto:PaulTaylor1@tfl.gov.uk)>; Matthew Hattersley <[MatthewHattersley1@tfl.gov.uk](mailto:MatthewHattersley1@tfl.gov.uk)>; Peter Clifford <[v\\_PeterClifford@tube.tfl.gov.uk](mailto:v_PeterClifford@tube.tfl.gov.uk)>; Hugh Williams <[HughWilliams1@tfl.gov.uk](mailto:HughWilliams1@tfl.gov.uk)>; Stuart Coomer <[Stuart.Coomer@tube.tfl.gov.uk](mailto:Stuart.Coomer@tube.tfl.gov.uk)>; Ray Barrett <[Ray.Barrett@tube.tfl.gov.uk](mailto:Ray.Barrett@tube.tfl.gov.uk)>; Nimesh Darji <[nimeshdarji@tfl.gov.uk](mailto:nimeshdarji@tfl.gov.uk)>; Adrian Moorhouse <[AdrianMoorhouse@tfl.gov.uk](mailto:AdrianMoorhouse@tfl.gov.uk)>; MORAR Shantilal <[shanty.morar@urbanandmainlines.com](mailto:shanty.morar@urbanandmainlines.com)>  
**Subject:** RE: Updated TSR Guidance WGN

**Classified as: {Hitachi Rail – Public}**

Hi Paul,

A few comments:

- Neasden Platform 4 is missing track section 80548
- Southbound Depot Road Pseudo Station is missing track section 81108

- Northbound Depot Road Pseudo Station is missing track section 81194
- When looking at VCC9 stations, I also found that West Ham Siding incorrectly listed track section 91242 and should be replaced with 91167
- Section 4.1 – should the software version be updated to align with VCC8 revenue software version?
- Section 5.5.2 should also include SMA8

Regards,  
Ryan

## TfL RESTRICTED

**From:** Paul Taylor <[PaulTaylor1@tfl.gov.uk](mailto:PaulTaylor1@tfl.gov.uk)>

**Sent:** Monday, May 12, 2025 9:45 AM

**To:** HATTERSLEY Matthew - External <[MatthewHattersley1@tfl.gov.uk](mailto:MatthewHattersley1@tfl.gov.uk)>; Peter Clifford <[PeterClifford@tube.tfl.gov.uk](mailto:PeterClifford@tube.tfl.gov.uk)>; Hugh Williams <[HughWilliams1@tfl.gov.uk](mailto:HughWilliams1@tfl.gov.uk)>; COOMER Stuart - External <[Stuart.Coomer@tube.tfl.gov.uk](mailto:Stuart.Coomer@tube.tfl.gov.uk)>; Ray Barrett <[Ray.Barrett@tube.tfl.gov.uk](mailto:Ray.Barrett@tube.tfl.gov.uk)>; DARJI Nimesh - External <[nimeshdarji@tfl.gov.uk](mailto:nimeshdarji@tfl.gov.uk)>; PERSAUD Ryan <[ryan.persaud@urbanandmainlines.com](mailto:ryan.persaud@urbanandmainlines.com)>; MOORHOUSE Adrian - External <[AdrianMoorhouse@tfl.gov.uk](mailto:AdrianMoorhouse@tfl.gov.uk)>; MORAR Shantilal <[shanty.morar@urbanandmainlines.com](mailto:shanty.morar@urbanandmainlines.com)>

**Subject:** Updated TSR Guidance WGN

All,

Please find attached for approval an updated TSR Guidance WGN for SMA8 operation.

Thanks,

Paul.

## TfL RESTRICTED

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{Hitachi Rail – Public}



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**RE: Updated TSR Guidance WGN**

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**From** MORAR Shantilal <shanty.morar@urbanandmainlines.com>  
**Date** Sat 31/05/2025 22:58  
**To** Paul Taylor <PaulTaylor1@tfl.gov.uk>

**Classified as: {Hitachi Rail – Internal}**

Hi Paul,  
I have no comments.  
Regards,  
Shanty

TfL RESTRICTED

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**From:** Paul Taylor <PaulTaylor1@tfl.gov.uk>  
**Sent:** Monday, May 12, 2025 9:45 AM  
**To:** HATTERSLEY Matthew - External <MatthewHattersley1@tfl.gov.uk>; Peter Clifford <v\_PeterClifford@tube.tfl.gov.uk>; Hugh Williams <HughWilliams1@tfl.gov.uk>; COOMER Stuart - External <Stuart.Coomer@tube.tfl.gov.uk>; Ray Barrett <Ray.Barrett@tube.tfl.gov.uk>; DARJI Nimesh - External <nimeshdarji@tfl.gov.uk>; PERSAUD Ryan <ryan.persaud@urbanandmainlines.com>; MOORHOUSE Adrian - External <AdrianMoorhouse@tfl.gov.uk>; MORAR Shantilal <shanty.morar@urbanandmainlines.com>  
**Subject:** Updated TSR Guidance WGN

All,

Please find attached for approval an updated TSR Guidance WGN for SMA8 operation.

Thanks,

Paul.

TfL RESTRICTED

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**{Hitachi Rail – Internal}**