**Signalling Discipline Shared Learning Index**

**Version 01/07/2021**

**Periodic Shared Learning Publications**

| **Ref Number and Link** | **Title** | **Contents** |
| --- | --- | --- |
| [21/01](https://safety.networkrail.co.uk/sl23_jan-2021-jun-2021/) | January 2021 – June 2021 | Digital signaturesIBJ recoveryPoints detection and TORRLightweight signal postsAWS shieldsAxle counter detection points and housingsUn-commissioned apparatusMechanical locking faceBlank signal aspect |
| [20/02](https://safety.networkrail.co.uk/wp-content/uploads/2021/01/SL22_Jun-2020-Dec-2020-1.0.pptx) | July 2020 – December 2020 | Level crossing race conditionCamaster 32 terminationsInsulation of partially recovered cablesSignal sighting obscurationErroneous TPWS activationsLX CCTV close callBlank banner repeater signal650V stud terminationHelical pilesPhantom aspectFuse specificationSSI fuse failureUWC Track circuit indicationsSpeed sign formsAWS and SMTH |
| [20/01](https://safety.networkrail.co.uk/wp-content/uploads/2020/07/SL21_Jan-2020-Jun-2020-v2.pptx) | January 2020 – July 2020 | Signal Group Replacement anomalyCable insecure on gantryGSM-R phone handsetsCCTV camera housingsCable core diversionsCCF indications data errorLocation siting at UWCSSI telegram delayASR electric shockAcceptance plunger on panelRAIB summaries of learningGood practice identified |
| [19/02](https://safety.networkrail.co.uk/wp-content/uploads/2020/01/SL20_Jul-2019-Dec-2019-v-1.0.pptx) | July 2019 – December 2019 | Inadvertent apparatus energisationIncorrect fuse pulledClamp Lock installation errorHollow bearer installationLevel Crossing line of sightGSM-R HandsetGSM-R signageLevel Crossing anomalyTRUST reporting pointsAWS water ingressRelay mechanical issuesPlug coupler failureSignal engineering close call trends |
| [19/01](https://safety.networkrail.co.uk/wp-content/uploads/2019/07/SL19_01_Jan-2019-Jun-2019.pdf) | January 2019 – June 2019 | Control of signalling alterationsAWS WSFPower Supply interruptionsSignal Head alignmentRCPL lock nutsLX signage with OHLESignal Box lever circuitsVMS signal mechanical strengthPower supply enclosureSlugs in AzLM EAK (animal incursion)APC and PACO magnets and balisesAudit good practice |
| [18/02](https://safety.networkrail.co.uk/sl18_02-mar-2018-dec-2018/) | March 2018 – December 2018 | IP addressingSoak testingComputer based route settingPermanent speed restriction AWS warningOperating irregularity - data omissionIBJ bondingPower supply sourceSolid state object controller cardsCross boundary dataSignal alignmentLX fail to raiseClarity of responsibility - voice recorderCrimp quality |
| [18/01](https://safety.networkrail.co.uk/sl18_01-july-2017-feb-2018/) | July 2017 – February 2018 | Waterloo derailmentABCL strike in pointsSignal aspect changesSignal alignmentTrack circuit – swarf contaminationTemporary Works: Interface ManagementAccess steps – embankment failure |

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| [17/01](https://safety.networkrail.co.uk/signalling-shared-learning-january-june-2017/) | January – June 2017 | Equipment unsecuredCAD and VR modelsLX obscured by OLESSI datalink diversityTPWS complex approachControl table missing aspectDamaged plug couplerScheme plan clarityUnintended consequences |

**Individual Shared Learning Publications**

| **Ref Number and Link** | **Title** | **Content** |
| --- | --- | --- |
| 029/19  | FTNx Communications Failure | Router mis-configured |
| [028/18](https://safety.networkrail.co.uk/sl028_18-control-table-error/) | Control Table Error | Separate overlap track omitted |
| [027/18](https://safety.networkrail.co.uk/sl027_18-selection-of-suitable-circuit-protection/) | Selection of Suitable Circuit Protection | Refresher on choosing circuit protective devices |
| [026/17](https://safety.networkrail.co.uk/shared-learning-product-acceptance/) | Product Acceptance | Guidance on the process to follow |
| [025/17](https://safety.networkrail.co.uk/swp025_17-billingshurst-mcb-od/) | Billingshurst MCB-OD Level Crossing  | Missing control revealed in perturbation |
| 024/16 See v2 | Streatham TVC789 – Data Error | SSI data error with latch function |
| [024/16 v2](https://safety.networkrail.co.uk/swp024_16-v2-streatham-tvc789-data-error/) | Streatham TVC789 – Data Error | SSI data error with latch function |
| [023/16](https://safety.networkrail.co.uk/signalling-shared-learning-sl-023_16-recoveries/) | Recoveries – Redundant Equipment, Cables, Wiring | Recoveries affecting live equipment |
| [022/16](https://safety.networkrail.co.uk/swp022_16-motts-lane-design-integration/) | Motts Lane - Design Integration | Level crossing - ARS and manual route setting conflict |
| [021/16](https://safety.networkrail.co.uk/swp021_16-watford-tunnel-loc/) | Watford Tunnel Location | Tunnel loc struck by train |
| [020/16](https://safety.networkrail.co.uk/swp020_16-polegate/) | Polegate Axle Counter Positioning Error | Axle counter head positioning error |
| [019/16](https://safety.networkrail.co.uk/swp019_16-manchester-east-westcad-system/) | Manchester East WestCAD System | Software crash |
| [018/16](https://safety.networkrail.co.uk/swp018_16-purley-t1649-points/) | Purley T1649 Points | Copy and paste design error, mod by tester |
| [017/16](https://safety.networkrail.co.uk/swp017_16-princes-risborough/) | Princes Risborough Swinging Overlap | SSI data constructs |
| [016/16](https://safety.networkrail.co.uk/swp016_16-manchester-north-recontrol/) | Manchester North Re-control – SSI Boundary Issues | Route setting to interlocking boundary signals |
| [015/15](https://safety.networkrail.co.uk/swp015_15-barton-lane-non-removal-of-10-second-axle-counter-delay-timer/) | Barton Lane AHB  | Non-Removal of 10 Second Axle Counter Delay Timer. |
| 014/15See v2 | Non-Commissioned Equipment  | TPWS/AWS interventions and unshielded signals. |
| [014/15 v2](https://safety.networkrail.co.uk/swp014_15-v2-non-commissioned-equipment/) | Non-Commissioned Equipment  | TPWS/AWS interventions and unshielded signals. |
| [013/15](https://safety.networkrail.co.uk/swp013-_15-new-street-survey-pride/) | Birmingham New Street laser survey | Laser survey of infrastructure for signal sighting |
| [012/15](https://safety.networkrail.co.uk/swp012_15-wembley-fringe/) | Waterford commissioning -Wembley Fringe  | Interference on datalinks - incorrectly terminated Furse unit |
| [011/15](https://safety.networkrail.co.uk/swp011-15-t2865-post-collapse/) | Signal post collapse.  | Signal post collapse due to corrosion |
| [009/14](https://safety.networkrail.co.uk/swp009-14-split-pins/) | Split Pin Security | Missing split pin on RCPL |
| [008/14](https://safety.networkrail.co.uk/swp008-14-lindridge-farm/) | Lindridge Farm (linked to RAIB report 11/2013) | User Worked Crossing incident, VDU screen |
| [006/14](https://safety.networkrail.co.uk/swp006-14-dorman-led-gpls-recontrol/) | Dorman LED GPLS | Re-controlled Dorman Non-Proved LED Ground Position Light Signals |
| [004/13](https://safety.networkrail.co.uk/swp004-13-bromfield/) | Bromfield | Level crossing circuit alterations WSF |
| [003/13](https://safety.networkrail.co.uk/swp003-13-immingham-ir87/) | Immingham | Mechanical signal arm proving |
| 002/13 See v2  | Stockley SSI data | Stockley Junction - Post Investigation Findings |
| [002/13v2](https://safety.networkrail.co.uk/swp002-13-v2-stockley/) | Stockley SSI data | Stockley Junction - Post Investigation Findings |
| [001/13](https://safety.networkrail.co.uk/swp001-13-ssi-data-assurance/) | SSI Data Assurance | SSI data complexity and accuracy |