**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 signatures  IBJ recovery  Points detection and TORR  Lightweight signal posts  AWS shields  Axle counter detection points and housings  Un-commissioned apparatus  Mechanical locking face  Blank 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 condition  Camaster 32 terminations  Insulation of partially recovered cables  Signal sighting obscuration  Erroneous TPWS activations  LX CCTV close call  Blank banner repeater signal  650V stud termination  Helical piles  Phantom aspect  Fuse specification  SSI fuse failure  UWC Track circuit indications  Speed sign forms  AWS 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 anomaly  Cable insecure on gantry  GSM-R phone handsets  CCTV camera housings  Cable core diversions  CCF indications data error  Location siting at UWC  SSI telegram delay  ASR electric shock  Acceptance plunger on panel  RAIB summaries of learning  Good 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 energisation  Incorrect fuse pulled  Clamp Lock installation error  Hollow bearer installation  Level Crossing line of sight  GSM-R Handset  GSM-R signage  Level Crossing anomaly  TRUST reporting points  AWS water ingress  Relay mechanical issues  Plug coupler failure  Signal 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 alterations  AWS WSF  Power Supply interruptions  Signal Head alignment  RCPL lock nuts  LX signage with OHLE  Signal Box lever circuits  VMS signal mechanical strength  Power supply enclosure  Slugs in AzLM EAK (animal incursion)  APC and PACO magnets and balises  Audit good practice |
| [18/02](https://safety.networkrail.co.uk/sl18_02-mar-2018-dec-2018/) | March 2018 – December 2018 | IP addressing  Soak testing  Computer based route setting  Permanent speed restriction AWS warning  Operating irregularity - data omission  IBJ bonding  Power supply source  Solid state object controller cards  Cross boundary data  Signal alignment  LX fail to raise  Clarity of responsibility - voice recorder  Crimp quality |
| [18/01](https://safety.networkrail.co.uk/sl18_01-july-2017-feb-2018/) | July 2017 – February 2018 | Waterloo derailment  ABCL strike in points  Signal aspect changes  Signal alignment  Track circuit – swarf contamination  Temporary Works: Interface Management  Access steps – embankment failure |

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| [17/01](https://safety.networkrail.co.uk/signalling-shared-learning-january-june-2017/) | January – June 2017 | Equipment unsecured  CAD and VR models  LX obscured by OLE  SSI datalink diversity  TPWS complex approach  Control table missing aspect  Damaged plug coupler  Scheme plan clarity  Unintended 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. |
| 014/15  See 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 |