



Transport for London

Record of Periodic Inspection

Site Details

Site Number 22/000001/U Site Type Junction Address A238 HIGH STREET MERTON - A238 KINGSTON RD - A219 MERTON RD - A219 MORDEN RD

Periodic Inspection

Maintenance Date
(Periodic Inspection Date) 06-Nov-2016 09:36 Engineer Name [REDACTED]
Inspection Type Full Inspection Status COMPLETE
Controller Details STCL T800 MK 1 UTC Cntr, Integral Facilities Monitoring Details UTC

Questionnaire

Visual Inspection

1	Are all aspects working and clearly visible?	Yes
2	Are all aspects correctly aligned?	Yes
3	Are the Cut-away hoods in good condition and aligned correctly?	n/a
4	Are the Tunnel hoods in good condition and aligned correctly?	n/a
5	Are the Louvred hoods in good condition and aligned correctly?	n/a
6	Is the site free from see through problems?	Yes
7	Are all Reg Signs (including Secret Signs) Present, secure and working correctly?	Yes
8	Are Blind Spot Safety Mirrors fitted, aligned correctly and in good condition?	n/a
9	Is the site free from foliage obstructing traffic signal visibility and/or detector operation?	Yes
10	Are Audio/Tactiles fitted and working correctly?	Yes
11	Are all PBU's present and secure?	Yes
12	Is all Traffic Control Equipment Clean?	Yes
13	Are all post caps present and secure?	Yes
14	Is the site free from non contractual equipment (if no identify type in comments)?	No - lamp columns, bollards, corner ballards, bins, road signs, cash machine, tube station, bike racks, CCTV.
14.1	Identify equipment type	n/a
15	Is the non contractual equipment fitted in safe condition?	n/a
16	Is the site free from graffiti?	No - stickers on posts 2,7,8,8,10,11. stickers on PBU's 5,11. cable ties around posts 3,4,6,7,10. posters around posts 2,4,6. sticker on NRT aspect poles 4. follow up required.
17	Is the site free from any cosmetic damage?	No - copex out poles 2,3,4 (4 = x3) copex 1xtoo short), 6,9, 4,10, 11. RM blurred poles 4,5,6,11. black paint cracked PBU's 1,5,7,10. yellow paint cracked PBU's pole 10. copex too short for alignment poles 4,10 & 11. follow up required.
18	Is the controller, P.J.L and ESP wiring tagged?	Yes



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Questionnaire

Visual Inspection

- | | | |
|----|--|--|
| 19 | Are the controller, P/JL and ESP sealed and free from corrosion (including ducts and door seals) and equipment seated correctly? | Yes |
| 20 | Is the controller, P/JL and ESP free from vermin infestation? | Yes |
| 21 | Ensure the controller, P/JL and ESP are clean and free from debris. | Yes |
| 22 | Ensure all locks, including bolts are present and working correctly. | Yes |
| 23 | Is all Above Ground Detection aligned correctly and secured? | n/a |
| 24 | Is Video Detection fitted, clean and secure? | n/a |
| 25 | Are all covers, pit lids and access panels free from defects and secure? | No - pit cover by pole 4 is not properly fitted (see pic). f/up reqd - no tools to lift cover - trip hazard. |
| 26 | Is the site equipment free from any Health and Safety risk? | No - as above. |
| 27 | Confirm the operation of PE Cell (site dimming)? | n/a |
| 28 | Are all road markings clearly visible? | No - all stop lines , ped studs, cycle marks, look left & rights & centre of junction yellow box are faded & require repainting. f/up reqd. |



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Questionnaire

Site Documentation

1	Is log book present (provide a new one if log book is not present or current one is nearly full)	Yes
2	Is the documentation wallet present (provide a new one if the current one is defective or missing)?	Yes
3	Is Timing Sheet present on site correct to SFM records?	Yes
3.1	Issue No	21
4	Is current SLD present?	Yes
4.1	Issue No	10
5	Is the site layout in accordance with the SLD?	Yes
6	Are all road markings as shown on SLD?	No - road markings have changed on site see RLD on SLD/22/001/10.
7	Is TfL Spec present (applies only to junctions)?	Yes
7.1	Issue number of TfL Specification	8
8	Is the Manufacturer's Controller Spec present?	Yes
8.1	Configuration number of Spec	22001
8.2	Issue number	9
9	Is a RAM sheet present (provide one if none present)?	No - RAM sheet left in site folder, was not one in folder. all okay.
10	Is the Loop Identification card present and correct?	Yes
11	Is the Magnetometer Identification card present and correct?	n/a
12	Remove old issue paperwork and tidy remainder into document wallet.	Yes



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<u>Controller Details</u>	STCL T800 MK 1 UTC Cntr, Integral Facilities	<u>Monitoring Details</u>	UTC

Questionnaire

Handset/Controller Checks

- | | | |
|------|--|---|
| 1 | Check all detection / inputs insert the correct demands? | Yes |
| 2 | Is all detection set to normal operation? | Yes |
| 3 | Is the input sense correct for each detector (e.g. Inverted for on crossing detection)? | Yes |
| 4 | Ensure Scoot detection is setup and working correctly. | Yes |
| 5 | Ensure the Speed Measurement Detection is working correctly. | n/a |
| 6 | Is the timetable for Audibles as per the specification/Ram Sheet? | Yes |
| 7 | Ensure all RAM data is correct to the latest specification / RAM sheet. | Yes |
| 8 | Ensure all timings are as per the latest timing sheet. | Yes |
| 9 | Ensure all timetable entries are as per the latest timing sheet. | No - not on timing sheet but in controller. please see questionnaire to check the diagram.FOLLOW UP REQD. |
| 10 | Ensure Controller clock settings and date are correct. | No - week = 47 changed to 44 - all okay. |
| 11 | Ensure controller mode of operation is correct. | Yes |
| 11.1 | Mode of operation | UTC |
| 12 | Does the manufacturers spec. match the configuration running in the controller? | Yes |
| 12.1 | Note the configuration running | 2209 (9) |
| 13 | Are the controller fault log/s clear? | Yes |
| 14 | For standalone pedestrian crossings (only) confirm the operation and correct wiring of the controller Red Lamp Monitoring. | n/a |
| 15 | Is the ancillary equipment operating correctly (e.g. OMU, IMU)? | No - IBUS bot receiving buses data. has site ID config okay. checked ariel receiver, called tech support (voltage). it is old model. advised to put back for follow up by d kaggwa tech support as diagnosis would take considerable time. |
| 16 | Are all changeable batteries less than 5.5 years old (i.e. if they are more than 5.5 years old they require replacement)? | Yes |
| 17 | Ensure all replaceable batteries are labelled with an install date. (Use the site controller installed date if labels not present) | Yes |



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Questionnaire

Electrical Checks

1	Take the meter reading (for sites fitted with electricity meters)	n/a
2	Check all wiring within feeder pillar particularly for conductor condition, integrity of insulation and security of all anchorages, barriers, termination/connections and components	Yes
3	Check all earth connections within the controller, ESP and P.J.L (where fitted) are present and tightly secured	Yes
4	Check all warning labels/circuit identification labels are not missing, damaged, or illegible	Yes
5	Confirm the Earth Fault Loop Impedance at the maintenance socket within tolerance (≤ 1.47 Ohms)	Yes
5.1	Impedance (Ohms)	0.26
6	Confirm the Operation of the maintenance socket RCD - a) 0.5 x no trip	Pass
7	Confirm the Operation of the maintenance socket RCD - b) 1 x (≤ 200 mS)	Pass
7.1	Positive Cycle	17.2
7.2	Negative Cycle	17.2
8	Confirm the Operation of the maintenance socket RCD - c) 5 x (≤ 40 mS)	Pass
8.1	Positive Cycle	15.2
8.2	Negative Cycle	15.2
9	Confirm the Operation of the maintenance socket RCD - d) RCD trips by pushing the button	Pass
10	Confirm the Earth Fault Loop Impedance at all LV push button front covers is within tolerance. (detail any failures) - (action on failure) → Pole number / Reading / Fault Button	n/a



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Questionnaire

Asset Check

1	Rate the condition of the controller and associated equipment (1-Very Bad, 2-Poor, 3-Acceptable, 4-Good, 5-Excellent)	Yes
1.1	Rate	3
2	Rate the condition of the lanterns and optical equipment (1-Very Bad, 2-Poor, 3-Acceptable, 4-Good, 5-Excellent)	Yes
2.1	Rate	3
3	Rate the condition of the poles and infrastructure equipment (1-Very Bad, 2-Poor, 3-Acceptable, 4-Good, 5-Excellent)	Yes
3.1	Rate	3
4	Rate the condition of the detection (1-Very Bad, 2-Poor, 3-Acceptable, 4-Good, 5-Excellent)	Yes
4.1	Rate	3
5	Rate the condition of the Ancillary Equipment (e.g. RM/UTC) (1-Very Bad, 2-Poor, 3-Acceptable, 4-Good, 5-Excellent)	Yes
5.1	Rate	3
6	Are all assets in accordance with the following list? (NB, assets found onsite that are in addition to the equipment list must be added by selecting the 'No' option.)	No - peek sovarota MTS4E det card. IBUS receiver on pole 2 signal head. NRT box sign (AVNSP) on pole 10. site equipment to be added to list.
6.1	Assets	n/a

Comments

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Site Equipment List

Location Details

Controller

Controller 1

- JH0301 - Pudsey Diamond Supply Pillar, Type A
- JH0301 - Pudsey Diamond Supply Pillar, Type A
- JH0301 - Pudsey Diamond Supply Pillar, Type A
- JL0000 - BT Termination Post (large). P.JL
- 841191 - STCL T800 MK 1 UTC Cntr, Integral Facilities
- OLM180 - Integral Comb'd Red/All Lmp Mon (SPCL)
- OMU111 - Siemens OMU (Bus Processor) Beacons
- XTU908 - IPOTU Gemini2 (Serial) and router
- VL4101 - Siemens ST4R 4 Channel Detector Controller Mounted
- VL4101 - Siemens ST4R 4 Channel Detector Controller Mounted
- VL4101 - Siemens ST4R 4 Channel Detector Controller Mounted

Other

Other 1

- ZBP100 - LT Buses Bus Beacon Pole (3.5 metres)
- ZBP100 - LT Buses Bus Beacon Pole (3.5 metres)
- ZBP102 - LT Buses Bus Beacon Pole (4.2 metres)
- ZBP102 - LT Buses Bus Beacon Pole (4.2 metres)
- AVI211 - Bus Beacon, Radio Type (LT Property), SLE Mnf
- AVI211 - Bus Beacon, Radio Type (LT Property), SLE Mnf
- AVI212 - Bus Beacon, Wired Type (LT Property), SLE Mnf
- AVI212 - Bus Beacon, Wired Type (LT Property), SLE Mnf
- AVI221 - SLE Radio LAN Transmitter/Receiver (LT Property), Pole Mounted

In-Road SD

In-Road SD 1

- VLLSCO - In-Road Detector SCOOT Loop
- VLLSCO - In-Road Detector SCOOT Loop
- VLLSCO - In-Road Detector SCOOT Loop
- VLLSCO - In-Road Detector SCOOT Loop
- VLLSCO - In-Road Detector SCOOT Loop
- VLLSCO - In-Road Detector SCOOT Loop
- VLLSCO - In-Road Detector SCOOT Loop
- VLLSCU - In-Road Detector Uni-Directional SCOOT Loop

In-Road Non-SD

In-Road Non-SD 1

- VLL1LP - In-Road Detector Single Loop

Pole

Pole 1

- PCU001 - Black Coated Pole (4.0m) Unsp
- LP2300 - 2 Aspect Lantern Anti-Phantom Ltn HI (Elite+) Peek
- HM1001 - Push Button Unit
- HT1K01 - Tactile Rotating Cone within Push Button (Radix)
- WP1501 - 1 Lamp ELV Wait Indicator (Ped Legend) Microsense

Pole 2

- PCU001 - Black Coated Pole (4.0m) Unsp
- LP3300 - 3 Aspect Anti-Phantom Ltn HI (Elite+) Peek
- LP3300 - 3 Aspect Anti-Phantom Ltn HI (Elite+) Peek
- LP2300 - 2 Aspect Lantern Anti-Phantom Ltn HI (Elite+) Peek
- HM1001 - Push Button Unit
- HT1K01 - Tactile Rotating Cone within Push Button (Radix)



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<u>Controller Details</u>	STCL T800 MK 1 UTC Cntr, Integral Facilities		

Site Equipment List

Location Details

- BP3302 - NLT Box Sign Anti-Phantom (3 Tube) Peek (Elite)
- BSB403 - X BUSES Secret Sign (Backlite) TSUK
- BSLB01 - Liquid Crystal Secret Sign "No Right Turn" Microsense
- BSLB01 - Liquid Crystal Secret Sign "No Right Turn" Microsense
- WP1501 - 1 Lamp ELV Wait Indicator (Ped Legend) Microsense

Pole 3

- PCU001 - Black Coated Pole (4.0m) Unsp
- LP2300 - 2 Aspect Lantern Anti-Phantom Ltn HI (Elite+) Peek
- HM1001 - Push Button Unit
- HT1K01 - Tactile Rotating Cone within Push Button (Radix)
- WP1501 - 1 Lamp ELV Wait Indicator (Ped Legend) Microsense

Pole 4

- PCU001 - Black Coated Pole (4.0m) Unsp
- LP3300 - 3 Aspect Anti-Phantom Ltn HI (Elite+) Peek
- LP3300 - 3 Aspect Anti-Phantom Ltn HI (Elite+) Peek
- LP2300 - 2 Aspect Lantern Anti-Phantom Ltn HI (Elite+) Peek
- LP1300 - 1 Aspect Lantern Anti-Phantom Ltn HI (Elite+) Peek
- HM1001 - Push Button Unit
- HT1K01 - Tactile Rotating Cone within Push Button (Radix)
- BSLB01 - Liquid Crystal Secret Sign "No Right Turn" Microsense
- WP1501 - 1 Lamp ELV Wait Indicator (Ped Legend) Microsense

Pole 5

- PCU001 - Black Coated Pole (4.0m) Unsp
- LP2300 - 2 Aspect Lantern Anti-Phantom Ltn HI (Elite+) Peek
- HM1001 - Push Button Unit
- HT1K01 - Tactile Rotating Cone within Push Button (Radix)
- WP1501 - 1 Lamp ELV Wait Indicator (Ped Legend) Microsense

Pole 6

- PCU001 - Black Coated Pole (4.0m) Unsp
- LP3300 - 3 Aspect Anti-Phantom Ltn HI (Elite+) Peek
- LP3300 - 3 Aspect Anti-Phantom Ltn HI (Elite+) Peek
- LP3300 - 3 Aspect Anti-Phantom Ltn HI (Elite+) Peek
- LP2300 - 2 Aspect Lantern Anti-Phantom Ltn HI (Elite+) Peek
- HM1001 - Push Button Unit
- HT1K01 - Tactile Rotating Cone within Push Button (Radix)
- BP3302 - NLT Box Sign Anti-Phantom (3 Tube) Peek (Elite)
- BSB401 - NRT Secret Sign (Backlite) TSUK
- BSB403 - X BUSES Secret Sign (Backlite) TSUK
- WP1501 - 1 Lamp ELV Wait Indicator (Ped Legend) Microsense

Pole 7

- PCU001 - Black Coated Pole (4.0m) Unsp
- LP2300 - 2 Aspect Lantern Anti-Phantom Ltn HI (Elite+) Peek
- HM1001 - Push Button Unit
- HT1K01 - Tactile Rotating Cone within Push Button (Radix)
- BSB401 - NRT Secret Sign (Backlite) TSUK
- WP1501 - 1 Lamp ELV Wait Indicator (Ped Legend) Microsense

Pole 8

- PCU001 - Black Coated Pole (4.0m) Unsp
- LP3300 - 3 Aspect Anti-Phantom Ltn HI (Elite+) Peek
- LP2300 - 2 Aspect Lantern Anti-Phantom Ltn HI (Elite+) Peek



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Site Equipment List

Location Details

- HM1001 - Push Button Unit
- HT1K01 - Tactile Rotating Cone within Push Button (Radix)
- BP3305 - TL Box Sign Anti-Phantom (3 Tube) Peek
- WP1501 - 1 Lamp ELV Wait Indicator (Ped Legend) Microsense
- Pole 9
 - PCU001 - Black Coated Pole (4.0m) Unsp
 - LP2300 - 2 Aspect Lantern Anti-Phantom Ltn HI (Elite+) Peek
 - HM1001 - Push Button Unit
 - HT1K01 - Tactile Rotating Cone within Push Button (Radix)
 - BP3305 - TL Box Sign Anti-Phantom (3 Tube) Peek
 - WP1501 - 1 Lamp ELV Wait Indicator (Ped Legend) Microsense
- Pole 10
 - PCU001 - Black Coated Pole (4.0m) Unsp
 - LP3300 - 3 Aspect Anti-Phantom Ltn HI (Elite+) Peek
 - LP3300 - 3 Aspect Anti-Phantom Ltn HI (Elite+) Peek
 - HM1001 - Push Button Unit
 - HT1K01 - Tactile Rotating Cone within Push Button (Radix)
 - BSLB01 - Liquid Crystal Secret Sign "No Right Turn" Microsense
 - WP1501 - 1 Lamp ELV Wait Indicator (Ped Legend) Microsense
- Pole 11
 - PCU001 - Black Coated Pole (4.0m) Unsp
 - LP3300 - 3 Aspect Anti-Phantom Ltn HI (Elite+) Peek
 - LP2300 - 2 Aspect Lantern Anti-Phantom Ltn HI (Elite+) Peek
 - HM1001 - Push Button Unit
 - HT1K01 - Tactile Rotating Cone within Push Button (Radix)
 - WP1501 - 1 Lamp ELV Wait Indicator (Ped Legend) Microsense