ELECTRICAL INSTALLATION CERTIFICATE [BS 7671: 2018 as amended]

for Industrial/Commercial Premises

Requirements for Electrical Installations BS7671 :2018 (IET Wiring Regulations 18th Edition)





| , | , | | | | | | | | | | | |
|--|--|------------------------------|---|--|--|--|--|--|--|--|--|--|
| Client Details | | | | | | | | | | | | |
| Client | Mike Cowling | I | Installation | Mike Cow | ling | | | | | | | |
| Address | Torquay Girls Grammar School 30 Shiphay Lane TORQUAY | , | Address | 30 Shipha | Torquay Girls Grammar School 30 Shiphay Lane TORQUAY | | | | | | | |
| Postcode | TQ2 7DY | l | Postcode | TQ2 7DY | | | | | | | | |
| Details of the Ins | tallation | | | | | | | | | | | |
| Installation is Ne | ew Addition Alteration | Records Av | ailable Yes | No 🗸 Date of | original installation 1930s | | | | | | | |
| Description of the in | | | | allation covered by this | certificate | | | | | | | |
| Replacement of TF | PDB in old CDT area | | Fixed Wiring to D | B CDT Only | | | | | | | | |
| Details of departure | es from BS 7671 (regulations 120.3, 133.1.3 and 13 | 3.5) IR TE | STS AT 250V | | | | | | | | | |
| | d exception. (regulation 411.3.3) where applicable a | suitable risk | c assessment(s) mus | t be attached to this cert | | | | | | | | |
| None | | | | | RCD Risk assessment attached (Non Dwelling ONLY) | | | | | | | |
| Declaration for D | esign, Construction, Inspection and Test | ing (for s | ole person respo | nsibility) | | | | | | | | |
| described in Section construction, inspec | responsible for design, construction, inspection and the n 2, having exercised reasonable skill and care when ction and test for which i have been responsible is to the ty of the signatory or the signatories is limited to work or | carrying out ne best of m | the design, constructi y knowledge and belie | on, inspection and test here of in accordance with BS | ereby CERTIFY that the design, | | | | | | | |
| For the DESIGN / | CONSTRUCTION / INSPECTION & TEST of the ins | stallation: | 1 | | | | | | | | | |
| Company | Andrews' Building Contractors Ltd | | Position | Electrician | | | | | | | | |
| Inspector Name Address | Simon Hammond | | Date Scheme No. | 19/04/2022 | Branch No. 001 | | | | | | | |
| | Casa Blanca Lower Penns Road Paignton | | Signature | Show | 5 | | | | | | | |
| Reviewed By Reviewed By Date | Simon Hammond | | Reviewed By Signature | Sitro | | | | | | | | |
| | I the designer recommend that this installation is for | urther insp | ected after an interv | of not more than 5 | years | | | | | | | |
| Supply Character | ristics and Earthing Arrangements | | | | , | | | | | | | |
| | | Othe | . If Other place | | | | | | | | | |
| Earτnin Number & Type ο | ng Arrangements TN-S TN-C-S V TT If live conductors AC DC No. of phase | Othe ses | | se specify N/A o. of wires 4 | | | | | | | | |
| | Parameters (Note: (1) by enquiry, (2) by enquiry or | | | | | | | | | | | |
| | inal voltage, U/U ₀ ⁽¹⁾ 400/230 v | _ | nal frequency, f ⁽¹⁾ 50 |) H _z | Confirmation of polarity | | | | | | | |
| Prospectiv | ve fault current, I _{pf} ⁽²⁾ 9.5 kA Ex | ternal loop | impedance, Z _e ⁽²⁾ 0. | 05 Ω | | | | | | | | |
| | | LIM | Rated Current 4 | 00 A | | | | | | | | |
| No. of Additional S | | | | | | | | | | | | |
| | tallation at the Origin | | -4-> | Means of | | | | | | | | |
| Location | ion Earth Electrode (where applicable) Type (e.g. Electrode re: | | | Distributors f Maximum Demand | | | | | | | | |
| | Main Protective Conductors Materia | | sa | (√) or Value | (✓) or Value | | | | | | | |
| | Earthing Conductor Copper | 150 | Continuity Ve | erified 🗸 | Ω Connection Verified Ω | | | | | | | |
| Protective Bonding C | Conductor (to extraneous-conductive-parts) | 95 | Continuity Ve | | Ω Connection Verified Ω | | | | | | | |
| Main Supply Co Main Switch Fuse/device rating If RCD main switc | Location Mains Room g or setting 80 A Voltage rating 400 | V mA | Gas installation BS(EN) 60947-3 | ion pipes | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | | | | | |
| | xisting installation (in case of addition or alteration or Continued Service | see section | 644.1.2) use continu | ation sheet if needed | | | | | | | | |
| (For additions or alteratio | ons) cables concealed within trunking and conduits, or cables or conduits | concealed under | r floors, in roof spaces and ge | nerally within the fabric of the bui | Iding or underground may not have been inspected. | | | | | | | |

ELECTRICAL INSTALLATION CERTIFICATE - Schedule of Inspections

for Industrial/Commercial Premises

Requirements for Electrical Installations BS7671:2018+A2:2022 (IET Wiring Regulations 18th Edition)





Indicates an inspection has been carried out and the result is satisfactory



Indicates the inspection is not applicable to a particular item



| m No. | Description | Outcor |
|--|--|---------|
| Extern | al Condition Of Intake Equipment (Visual Inspection Only) Where inadequacies are encountered, it is recommended tl | nat the |
| rson ord | lering the report informs the appropriate authority | |
| 1.1 | Service cable | |
| 1.2 | Service head | |
| 1.3 | Earthing arrangement | |
| 1.4 | Meter tails | |
| 1.5 | Metering equipment | |
| 1.6 | Isolator (where present) | |
| Paralle | Or Switched Alternative Sources Of Supply | |
| 2.1 | Adequate arrangements where a generating set operates as a switched alternative to the public supply (551.6) | N/F |
| 2.1.1 | Dedicated earthing arrangement independent of that of the public supply (551.4.3.2.1) | N/A |
| 2.2 | Adequate arrangements where a generating set operates in parallel with the public supply (551.7) | N/F |
| 2.2.1 | Correct connection of generator in parallel (551.7.2) | N/F |
| 2.2.2 | Compatibility of characteristics of means of generation (551.7.3) | N/ |
| 2.2.3 | Means to provide automatic disconnection of generator in the event of loss of public supply system or voltage or frequency deviation beyond declared values (551.7.4) | N/A |
| 2.2.4 | Means to prevent connection of generator in the event of loss of public supply system or voltage or frequency deviation beyond declared values (551.7.5) | N/A |
| 2.2.5 | Means to isolate generator from the public supply system (551.7.6) | N/A |
| Autom | atic Disconnection Of Supply | |
| 3.1 | Protective earthing/bonding arrangements (411.3; Chap 54) | |
| 3.2 | Adequacy of | |
| 3.2.1 | Distributor's earthing arrangement (542.1.2.1; 542.1.2.2) or installation earth electrode arrangement (542.1.2.3) | |
| 3.2.2 | Earthing conductor and connections (Section 526; 542.3; 542.3.2; 543.1.1) | |
| 3.2.3 | Main protective bonding conductors and connections (Section 526; 544.1; 554.1.2) | |
| 3.2.4 | Earthing bonding labels at all appropriate locations (514.13) | |
| 3.3 | Accessibility of | |
| 3.3.1 | Earthing conductor connections | |
| | <u>, </u> | |
| 3.3.2 | All protective bonding connections (543.3.2) | |
| 3.3.2 | All protective bonding connections (543.3.2) FELV - requirements satisfied (411.7; 411.7.1) | |
| 3.4 | FELV - requirements satisfied (411.7; 411.7.1) | N/ |
| 3.4 | FELV - requirements satisfied (411.7; 411.7.1) Methods Of Protection (Where any of the methods listed below are employed details should be provided on separate states. | N/ |
| 3.4 Other I 4.1 | FELV - requirements satisfied (411.7; 411.7.1) Methods Of Protection (Where any of the methods listed below are employed details should be provided on separate separate and fault protection (where used, confirmation that the requirements are satisfied) | N/ |
| 3.4 Other M 4.1 4.1.1 | FELV - requirements satisfied (411.7; 411.7.1) Methods Of Protection (Where any of the methods listed below are employed details should be provided on separate separate and fault protection (where used, confirmation that the requirements are satisfied) SELV (Section 414) | sheets) |
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| 3.4 Other N 4.1 4.1.1 4.1.2 4.1.3 | FELV - requirements satisfied (411.7; 411.7.1) Methods Of Protection (Where any of the methods listed below are employed details should be provided on separate so Basic and fault protection (where used, confirmation that the requirements are satisfied) SELV (Section 414) PELV (Section 414) Double insulation (Section 412) | sheets) |
| 3.4 Other I 4.1 4.1.1 4.1.2 4.1.3 4.1.4 | FELV - requirements satisfied (411.7; 411.7.1) Methods Of Protection (Where any of the methods listed below are employed details should be provided on separate separate and fault protection (where used, confirmation that the requirements are satisfied) SELV (Section 414) PELV (Section 414) Double insulation (Section 412) Reinforced insulation (Section 412) | sheets) |
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| 3.4 Other M 4.1 4.1.1 4.1.2 4.1.3 4.1.4 4.2 4.2.1 4.2.2 4.2.3 4.2.4 | FELV - requirements satisfied (411.7; 411.7.1) Methods Of Protection (Where any of the methods listed below are employed details should be provided on separate of Basic and fault protection (where used, confirmation that the requirements are satisfied) SELV (Section 414) PELV (Section 414) Double insulation (Section 412) Reinforced insulation (Section 412) Basic protection Insulation of live parts (416.1) Barriers or enclosures (416.2; 416.21) Obstacles (Section 417; 417.2.1; 417.2.2) Placing out of reach (Section 417; 417.3) | sheets) |
| 3.4 Other M 4.1 4.1.1 4.1.2 4.1.3 4.1.4 4.2 4.2.1 4.2.2 4.2.3 4.2.4 4.3 | FELV - requirements satisfied (411.7; 411.7.1) Methods Of Protection (Where any of the methods listed below are employed details should be provided on separate of Basic and fault protection (where used, confirmation that the requirements are satisfied) SELV (Section 414) PELV (Section 414) Double insulation (Section 412) Reinforced insulation (Section 412) Basic protection Insulation of live parts (416.1) Barriers or enclosures (416.2; 416.21) Obstacles (Section 417; 417.2.1; 417.2.2) Placing out of reach (Section 417; 417.3) Fault protection | sheets) |
| 3.4 Other M 4.1 4.1.1 4.1.2 4.1.3 4.1.4 4.2 4.2.1 4.2.2 4.2.3 4.2.4 4.3 4.3.1 | FELV - requirements satisfied (411.7; 411.7.1) Methods Of Protection (Where any of the methods listed below are employed details should be provided on separate of Basic and fault protection (where used, confirmation that the requirements are satisfied) SELV (Section 414) PELV (Section 414) Double insulation (Section 412) Reinforced insulation (Section 412) Basic protection Insulation of live parts (416.1) Barriers or enclosures (416.2; 416.21) Obstacles (Section 417; 417.2.1; 417.2.2) Placing out of reach (Section 417; 417.3) Fault protection Non-conducting location (418.1) | sheets) |
| 3.4 Other M 4.1 4.1.1 4.1.2 4.1.3 4.1.4 4.2 4.2.1 4.2.2 4.2.3 4.2.4 4.3 4.3.1 4.3.2 | FELV - requirements satisfied (411.7; 411.7.1) Methods Of Protection (Where any of the methods listed below are employed details should be provided on separate statistical and fault protection (where used, confirmation that the requirements are satisfied) SELV (Section 414) PELV (Section 414) Double insulation (Section 412) Reinforced insulation (Section 412) Basic protection Insulation of live parts (416.1) Barriers or enclosures (416.2; 416.21) Obstacles (Section 417; 417.2.1; 417.2.2) Placing out of reach (Section 417; 417.3) Fault protection Non-conducting location (418.1) Earth-free local equipotential bonding (418.2) | sheets) |
| 3.4 Other M 4.1 4.1.1 4.1.2 4.1.3 4.1.4 4.2 4.2.1 4.2.2 4.2.3 4.2.4 4.3 4.3.1 4.3.2 4.3.3 | FELV - requirements satisfied (411.7; 411.7.1) Methods Of Protection (Where any of the methods listed below are employed details should be provided on separate statistical and fault protection (where used, confirmation that the requirements are satisfied) SELV (Section 414) PELV (Section 414) Double insulation (Section 412) Reinforced insulation (Section 412) Basic protection Insulation of live parts (416.1) Barriers or enclosures (416.2; 416.21) Obstacles (Section 417; 417.2.1; 417.2.2) Placing out of reach (Section 417; 417.3) Fault protection Non-conducting location (418.1) Earth-free local equipotential bonding (418.2) Electrical separation (Section 415; 415.2) | sheets) |
| 3.4 Other M 4.1 4.1.1 4.1.2 4.1.3 4.1.4 4.2 4.2.1 4.2.2 4.2.3 4.2.4 4.3 4.3.1 4.3.2 4.3.3 4.4 | FELV - requirements satisfied (411.7; 411.7.1) Methods Of Protection (Where any of the methods listed below are employed details should be provided on separate and fault protection (where used, confirmation that the requirements are satisfied) SELV (Section 414) PELV (Section 414) Double insulation (Section 412) Reinforced insulation (Section 412) Basic protection Insulation of live parts (416.1) Barriers or enclosures (416.2; 416.21) Obstacles (Section 417; 417.2.1; 417.2.2) Placing out of reach (Section 417; 417.3) Fault protection Non-conducting location (418.1) Earth-free local equipotential bonding (418.2) Electrical separation (Section 415; 415.2) Additional protection | sheets) |
| 3.4 Other M 4.1 4.1.1 4.1.2 4.1.3 4.1.4 4.2 4.2.1 4.2.2 4.2.3 4.2.4 4.3.1 4.3.2 4.3.3 4.4 4.4.1 | FELV - requirements satisfied (411.7; 411.7.1) Methods Of Protection (Where any of the methods listed below are employed details should be provided on separate separate and fault protection (where used, confirmation that the requirements are satisfied) SELV (Section 414) PELV (Section 414) Double insulation (Section 412) Reinforced insulation (Section 412) Basic protection Insulation of live parts (416.1) Barriers or enclosures (416.2; 416.21) Obstacles (Section 417; 417.2.1; 417.2.2) Placing out of reach (Section 417; 417.3) Fault protection Non-conducting location (418.1) Earth-free local equipotential bonding (418.2) Electrical separation (Section 415; 415.2) Additional protection RCDs not exceeding 30 mA as specified (415.1) | sheets) |
| 3.4 Other M 4.1 4.1.1 4.1.2 4.1.3 4.1.4 4.2 4.2.1 4.2.2 4.2.3 4.2.4 4.3 4.3.1 4.3.2 4.3.3 4.4 4.4.1 4.4.2 | FELV - requirements satisfied (411.7; 411.7.1) Methods Of Protection (Where any of the methods listed below are employed details should be provided on separate separate and fault protection (where used, confirmation that the requirements are satisfied) SELV (Section 414) PELV (Section 414) Double insulation (Section 412) Reinforced insulation (Section 412) Basic protection Insulation of live parts (416.1) Barriers or enclosures (416.2; 416.21) Obstacles (Section 417; 417.2.1; 417.2.2) Placing out of reach (Section 417; 417.3) Fault protection Non-conducting location (418.1) Earth-free local equipotential bonding (418.2) Electrical separation (Section 415; 415.2) Additional protection RCDs not exceeding 30 mA as specified (415.1) Supplementary bonding (Section 415; 415.2) | sheets) |
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| 3.4 4.1 4.1.1 4.1.2 4.1.3 4.1.4 4.2.2 4.2.1 4.2.2 4.2.3 4.2.4 4.3.1 4.3.2 4.3.3 4.4 4.4.1 5.1 5.2 | FELV - requirements satisfied (411.7; 411.7.1) Methods Of Protection (Where any of the methods listed below are employed details should be provided on separate and sault protection (where used, confirmation that the requirements are satisfied) SELV (Section 414) PELV (Section 414) Double insulation (Section 412) Reinforced insulation (Section 412) Basic protection Insulation of live parts (416.1) Barriers or enclosures (416.2; 416.21) Obstacles (Section 417; 417.2.1; 417.2.2) Placing out of reach (Section 417; 417.3) Fault protection Non-conducting location (418.1) Earth-free local equipotential bonding (418.2) Electrical separation (Section 415; 415.2) Additional protection RCDs not exceeding 30 mA as specified (415.1) Supplementary bonding (Section 415; 415.2) ution Equipment Security of fixing (134.1.1) Insulation of live parts not damaged during erection (416.1) | sheets) |
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| 3.4 Other M 4.1 4.1.1 4.1.2 4.1.3 4.1.4 4.2 4.2.1 4.2.2 4.2.3 4.2.4 4.3 4.3.1 4.3.2 4.3.3 4.4 4.4.1 5.2 Distrib 5.1 5.2 5.3 5.4 | FELV - requirements satisfied (411.7; 411.7.1) Methods Of Protection (Where any of the methods listed below are employed details should be provided on separate as Basic and fault protection (where used, confirmation that the requirements are satisfied) SELV (Section 414) PELV (Section 414) Double insulation (Section 412) Reinforced insulation (Section 412) Basic protection Insulation of live parts (416.1) Barriers or enclosures (416.2; 416.21) Obstacles (Section 417; 417.2.1; 417.2.2) Placing out of reach (Section 417; 417.3) Fault protection Non-conducting location (418.1) Earth-free local equipotential bonding (418.2) Electrical separation (Section 415; 415.2) Additional protection RCDs not exceeding 30 mA as specified (415.1) Supplementary bonding (Section 415; 415.2) ution Equipment Security of fixing (134.1.1) Insulation of live parts not damaged during erection (416.1) Adequacy/security of barriers (416.2) Suitability of enclosure(s) for IP and fire rating (416.2; 421.1.6; 421.1.201;526.5) | sheets) |
| 3.4 Other I 4.1 4.1.2 4.1.3 4.1.4 4.2 4.2.1 4.2.2 4.2.3 4.2.4 4.3.1 4.3.2 4.3.3 4.4 4.4.1 4.4.2 Distribution of the contraction o | FELV - requirements satisfied (411.7; 411.7.1) Methods Of Protection (Where any of the methods listed below are employed details should be provided on separate and fault protection (where used, confirmation that the requirements are satisfied) SELV (Section 414) PELV (Section 414) Double insulation (Section 412) Reinforced insulation (Section 412) Basic protection Insulation of live parts (416.1) Barriers or enclosures (416.2; 416.21) Obstacles (Section 417; 417.2.1; 417.2.2) Placing out of reach (Section 417; 417.3) Fault protection Non-conducting location (418.1) Earth-free local equipotential bonding (418.2) Electrical separation (Section 415; 415.2) Additional protection RCDs not exceeding 30 mA as specified (415.1) Supplementary bonding (Section 415; 415.2) utton Equipment Security of fixing (134.1.1) Insulation of live parts not damaged during erection (416.1) Adequacy/security of barriers (416.2) | sheets) |

ELECTRICAL INSTALLATION CERTIFICATE - Schedule of Inspections

for Industrial/Commercial Premises

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| 5.8 | Presence of main switch(es), linked where required (462.1.201) | |
|----------|--|------------|
| 5.9 | Operation of main switch(es) (functional check) (643.10) | \bigcirc |
| 5.10 | Manual operation of circuit-breakers and RCDs to prove functionality (643.10) | |
| 5.11 | Confirmation that integral test button/switch causes RCDs to trip when operated (functional check) (643.10) | |
| 5.12 | RCDs provided for fault protection where specified (411.4.204; 411.5.2; 531.2) | |
| 5.13 | RCDs provided for additional protection where specified (415.1) | |
| 5.14 | Confirmation overvoltage protection (SPDs) provided where specified (534.4.1.1) | |
| 5.15 | Presence of RCD six-monthly test notice at or near the origin (514.12.2) | |
| 5.16 | Presence of diagrams, charts or schedules at or near each distribution board, where required (514.9.1) | |
| 5.17 | Presence of non-standard (mixed) cable colour warning notice at or near the appropriate distribution board, where required (514.14) | Ø |
| 5.18 | Presence of alternative supply warning notice at or near | |
| 5.18.1 | The origin | |
| 5.18.2 | The meter position, if remote from the origin | |
| 5.18.3 | The distribution board to which the alternative/additional sources are connected | |
| 5.18.4 | All points of isolation of ALL sources of supply | |
| 5.19 | Presence of next inspection recommendation label (514.12.1) | |
| 5.20 | Presence of other required labelling (Section 514) | ⊘ |
| 5.21 | Selection of protective device(s) and base(s); correct type and rating(411.3.2; 411.4; 411.4.5; 411.4.6; Sections 432; 433; 434) | Ø |
| 5.22 | Single-pole protective devices in line conductors only (132.14.1; 530.3.3; 643.6) | Ø |
| 5.23 | Protection against mechanical damage where cables enter equipment (522.8.1; 522.8.5; 522.8.11) | |
| 5.24 | Protection against electromagnetic effects where cables enter ferromagnetic enclosures (521.5.1) | |
| 5.25 | Confirmation that ALL conductor connections, including connections to busbars, are correctly located in terminals and are tight and secure (526.1) | Ø |
| Final Ci | | |
| 6.1 | Identification of conductors (514.3.1) | |
| 6.2 | Cables correctly supported throughout their run (521.10.202; 522.8.5) | |
| 6.3 | Examination of cables for signs of mechanical damage during installation (522.6.1; 522.8.1; 522.8.3) | |
| 6.4 | | |
| | Examination of insulation of live parts, not damaged during erection (522.6.1; 522.8.1) | |
| 6.5 | Non-sheathed cables protected by enclosure in conduit, ducting or trunking (521.10.1) | |
| 6.6 | Suitability of containment systems (including flexible conduit) (Section 522) | |
| 6.7 | Correct temperature rating of cable insulation (522.1.1; Table 52.1) | |
| 6.8 | Adequacy of cables for current-carrying capacity with regard for the type and nature of installation (Section 523) | \bigcirc |
| 6.9 | Adequacy of protective devices: type and rated current for fault protection (411.3) | \bigcirc |
| 6.10 | Presence and adequacy of circuit protective conductors (411.3.1; 543.1) | \bigcirc |
| 6.11 | Co-ordination between conductors and overload protective devices (433.1; 533.2.1) | \bigcirc |
| 6.12 | Wiring systems and cable installation methods/practices with regard to the type and nature of installation and external influences (Section 522) | |
| 6.13 | Cables concealed under floors, above ceilings, in walls/partitions, adequately protected against damage (522.6.201; 522.6.202; 522.6.203; 522.6.204) | |
| 6.14 | Provision of additional protection by RCDs having rated residual operating current not exceeding 30 mA | |
| 5.14.1 | For all socket-outlets of rating (32 A) or less, unless exempt (411.3.3) | Ø |
| 5.14.2 | Supplies for mobile equipment not exceeding 32 A rating for use outdoors (411.3.3) | Ø |
| 5.14.3 | For cables concealed in walls at a depth of less than 50mm (522.6.202, 522.6.203) | Ø |
| 5.14.4 | For cables concealed in walls/partitions containing metal parts regardless of depth (522.6.202, 522.6.203) | Ø |
| 6.14.5 | Circuits supplying luminaires within domestic (household) premises (411.3.4) | Ø |
| 6.15 | Provision of fire barriers, sealing arrangements so as to minimize the spread of fire (Section 527) | Ø |
| 6.16 | Band II cables segregated/separated from Band I cables (528.1) | |
| 6.17 | Cables segregated/separated from non-electrical services (528.3) | |
| 6.18 | Termination of cables at enclosures (Section 526) | |
| 5.18.1 | Connections under no undue strain (522.8.5; 526.6) | \bigcirc |
| 5.18.2 | No basic insulation of a conductor visible outside enclosure (526.8) | \bigcirc |
| 5.18.3 | Connections of live conductors adequately enclosed (526.5) | \bigcirc |
| 5.18.4 | Adequately connected at point of entry to enclosure (glands, bushes etc) (522.8.5) | \bigcirc |
| 6.19 | Suitability of circuit accessories for external influences (512.2) | \bigcirc |
| 6.20 | Circuit accessories not damaged during erection (134.1.1) | |
| _ | Other transfer and the state of | |
| 6.21 | Single-pole devices for switching or protection in line conductors only (132.14.1; 530.3.3; 643.6) | |

| inspector's mame. | Simon Hammond |
|-------------------|---------------|
| Date: | 19/04/2022 |

Signature:

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| | 700 | 41.5 | |

ELECTRICAL INSTALLATION CERTIFICATE - Schedule of Tests

for Industrial/Commercial Premises

Requirements for Electrical Installations BS 7671: 2018 (IET Wiring Regulations 18th Edition)





| Company | Name Andrews' Building Co | c | ompan | ompany Address Casa Blanca Postcode TQ3 1JE Branch No. 001 Scheme No. Installation Address Mike Cowling, Torquay Girls Grammar School, 30 Shiphay Lane, TORQUAY Postcode TQ2 7DY | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|--|-----------|--------------|--|----------------------|--|--|------------------------|------------|---------------|-------------------|---------------|-----------------------|--------------|---------------------------|--------------|----------------|---|-------------------------|--------------|-------------|-------------|---------------------|------------------|---------------|------------------|-------------------|----------|--|
| Client Mil | e Cowling | | | | | Installa | tion A | ddress Mike | Cow | ling, T | orquay | Girls G | Grammar S | chool, 30 |) Shiphay | / Lane, T | ORQU | AY | | | | Po | stcoc | de TQ2 | 7DY | | | | |
| Distribution | board details - Complete in | every | case | | | Complete only if the distribution board is not connected directly to the origin of the installation Characteristics at this dis Associated RCD(if any): BS (if | | | | | | | | | | | , , | | | | | | | | = | | | | |
| Location CDT Area | | | | | | | Supply to distribution board is from Associated RCD(if any): E | | | | | | | | | | B2 (EI | N) Above 30mA a Loop impedance 18091173 Loop impedance Insulation resistance 18091173 | | | | | | | | _ | | | |
| Designation | DB CDT | | | | | Main MCCB Panel Z _d 0.16 | | | | | | | | | | Ω No. | of poles | N/A | | 30m | A or belov | | sulation | | | | | \dashv | |
| Num. of way | rs 12 Num. of | phase | s 3 | | | Overcurrent protective device for PS(EN) 60947 MCCB | | | | | | | | | | A IΔn | N/A | | perating a | at 5 l∆n r | N/A ms | , <u>@</u> | Continuity 18091173 | | | | | | |
| Supply p | olarity confirmed Phase se | equence | e confirm | ed 🗸 | | the distribution circuit: Type A Rating 100 A Voltage 400/23 V Time delay (if applicable) N/A | | | | | | | | | | 4 | RCD 18091173 | | | | | | | | | | | | |
| CIRCUIT DETAILS TEST RESUL | | | | | | | | | | | | SULT | S | | | | | | | | | | | | | | | | |
| anc | Distribution board Designation | Туре | 70 | N _o | | onductors (mm²) | dis | Overcurrent device | | tive | Breaking capacity | RCD operating | BS 7671 Max. | | C | ircuit impe | dance | Ω | | | ation resis | | Po | Max. Measured | RCD | testing | Manua button o | | |
| Circuit and Line | OB CDT | of of | Ref. m | 으 | | | Max | | Туре | رچ | aking | RCD | permitted Zs Other | | final circui ured end- | | Fig 8 check | | its to be ed usina | Test | L/L, | L/E, | Polarity | ax. | Above 30mA | 30mA or below | RCD | AFDD | |
| | Circuit designation | of wiring | . method | f points | r ž | СРС | Maximum sconnection | BS EN Number | e No. | Rating (A) | (KA) | (mA) | 80% (Ω) | r1 | rn | r2 | (√) | R1R2 or R | 2, not both | voltage V | L/N M(Ω) | N/E M(Ω) | (√) | Zs (Ω) | l∆n ms | 5 l∆n ms | (√) | (√) | |
| 1/L1 I | TS READING RM LEFT | D | В | 7 | 1.5 | 1.5 | 0.4 | 61009 RCD/ | В | 6 | 6 | 30 | 5.82 | N/A | N/A | N/A | N/A | 0.72 | N/A | 250 | >299 | >299 | √ | 0.88 | 18 | 18 | √ | N/A | |
| 1/L2 I | TS READING RM RIGHT | D | В | 4 | 1.5 | 1.5 | 0.4 | 61009 RCD/ | В | 6 | 6 | 30 | 5.82 | N/A | N/A | N/A | N/A | 0.68 | N/A | 250 | >299 | >299 | ✓ | 0.83 | 18 | 18 | ✓ | N/A | |
| 1/L3 I | TS HEAD & HR | D | В | 7 | 2.5 | 2.5 | 0.4 | 61009 RCD/ | В | 6 | 6 | 30 | 5.82 | N/A | N/A | N/A | N/A | 1.24 | N/A | 250 | >299 | >299 | ✓ | 1.42 | 18 | 18 | ✓ | N/A | |
| 2/L1 | SERVER RIGHT | D | В | 1 | 2.5 | 1.5 | 0.4 | 61009 RCD/ | В | 20 | 6 | 30 | 1.75 | N/A | N/A | N/A | N/A | 0.11 | N/A | 250 | >299 | >299 | ✓ | 0.27 | 18 | 18 | ✓ | N/A | |
| 2/L2 | SKT OUTSIDE | F | С | 1 | 2.5 | 2.5 | 0.4 | 61009 RCD/ | В | 20 | 6 | 30 | 1.75 | N/A | N/A | N/A | N/A | 0.13 | N/A | 250 | >299 | >299 | ✓ | 0.29 | 18 | 18 | ✓ | N/A | |
| 2/L3 (| GATE | D | В | 1 | 2.5 | 1.5 | 0.4 | 61009 RCD/ | В | 20 | 6 | 30 | 1.75 | N/A | N/A | N/A | N/A | 0.16 | N/A | 250 | >299 | >299 | ✓ | 0.31 | 18 | 18 | ✓ | N/A | |
| 3/L1 | SKTS HEADS OFFICE | D | В | 7 | 2.5 | 135 | 0.4 | 61009 RCD/ | В | 20 | 6 | 30 | 1.75 | N/A | N/A | N/A | N/A | 1.88 | N/A | 250 | >299 | >299 | ✓ | 2.03 | 18 | 18 | ✓ | N/A | |
| 3/L2 | SPARE | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| 3/L3 | SPARE | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| 4/TP \$ | SPARE | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| 5/L1 \$ | SKTS CENTRE DESK | D | В | 13 | 2.5 | 2.5 | 0.4 | 61009 RCD/ | В | 32 | 6 | 30 | 1.09 | 0.52 | 0.52 | 0.51 | ✓ | 0.25 | N/A | 250 | >299 | >299 | ✓ | 0.43 | 18 | 18 | ✓ | N/A | |
| | SKTS DADO | D | В | 9 | 2.5 | 2.5 | 0.4 | 61009 RCD/ | В | 32 | 6 | 30 | 1.09 | 0.29 | 0.28 | 0.34 | ✓ | 0.14 | N/A | 250 | >299 | >299 | ✓ | 0.29 | 18 | 18 | ✓ | N/A | |
| | SKTS METAL CLAD THIS END | D | В | 5 | 2.5 | 2.5 | 0.4 | 61009 RCD/RCBO | В | 32 | 6 | 30 | 1.09 | 0.10 | 0.10 | 0.13 | ✓ | 0.06 | N/A | 250 | >299 | >299 | ✓ | 0.20 | 18 | 18 | ✓ | N/A | |
| 6/L1 | SKTS WINDOW BENCH | D | В | 18 | 6 | 6 | 0.4 | 61009 RCD/ | В | 32 | 6 | 30 | 1.09 | N/A | N/A | N/A | N/A | 0.23 | N/A | 250 | >299 | >299 | ✓ | 0.38 | 18 | 18 | ✓ | N/A | |
| 6/L2 | SKTS LOBBY & BENCH | D | В | 3 | 6 | 6 | 0.4 | 61009 RCD/ | В | 32 | 6 | 30 | 1.09 | N/A | N/A | N/A | N/A | 0.04 | N/A | 250 | >299 | >299 | ✓ | 0.20 | 18 | 18 | ✓ | N/A | |
| 6/L3 I | TS HALLWAY | D | В | 8 | 1 | 1 | 0.4 | 61009 RCD/ | В | 6 | 6 | 30 | 5.82 | N/A | N/A | N/A | N/A | 2.30 | N/A | 250 | >299 | >299 | ✓ | 2.45 | 18 | 18 | ✓ | N/A | |
| 7/TP | SPARE | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| | circuits and/or installed e | equipr | ment v | ulnera | able to | damage | when | testing | Dat | e(s) | dead t | esting | 19/04/ | 2022 | То | 19/04/20 | 022 | Date | Date(s) live testing 19 | | | 19/04/20 | 9/04/2022 To | | | 19/04/2022 | | | |
| Computers | | | | | | | _ | | | | | | | | | | | | Sig | gnature | Sul | | | | | | | | |
| Tested by | : Name (capital letters) | SI | MON H | AMMO | ND | | _ P | osition Electr | ician | | | | [| Date 19 | 9/04/202 | 2 | | | | | | | | | | | | | |
| Wiring Types. A F | PVC/PVC, B PVC cables in metallic Conduit, 0 | C PVC ca | bles in non- | metallic Co | onduit, D PVC | cables in me | tallic trunkin | g, E PVC cables in nor | n-metallio | trunking | F PVC/SV | VA cables, | G SWA/XPLE | cables, H Mi | ineral Insulate | ed, MW Metal | Work, FN | Ferrous Met | al, O Other | | | | | | | | | | |

ELECTRICAL INSTALLATION CERTIFICATE - Schedule of Tests

for Industrial/Commercial Premises

Requirements for Electrical Installations BS 7671: 2018 (IET Wiring Regulations 18th Edition)





| SKTS HR & SERVER D B 9 6 6 0.4 61009 RCD/ B 32 6 30 1.09 N/A N/A N/A N/A N/A 0.32 N/A 250 >299 >299 \$\sqrt{0}\$ 0.47 18 18 \$\sqrt{N/A}\$ N/A | | | | CI | RCU | IT DE | TAILS | | | | | | | | | | | | | TE | ST RE | ESULT | ΓS | | | | | | |
|---|--------------------------------|--|----------|--------------|-------------|---------------------|----------------|-----------------|--------------------------------|-----------|--------------|-----------|-----------|---------------------|-------------|----------------|---------------------|----------------|--------------------|-------------|---------|-------|-------------|----------|------------|------|-------------|----------|------|
| Fig. Count deviguisation Fig. | Distribution board Designation | | | | | | | | | | ctive | Brea | opera | Max. | | C | Circuit impe | edance | Ω | | | | | Po_ | Ma Meas | RCD | RCD testing | | |
| 8.1 SKTS HR & SERVER 0 | Sircuit I | | e of wi | ef. met | 9, | _ | | Maxim | BS EN | Туре | Ratir (A) | aking | ating | Zs Other | | | | Fig 8 check | complet | ed using | | | L/E, N/E | arity | Zs | 30mA | below | RCD | AFDD |
| REATER BELOW D B S 1 2.5 2.5 0.4 \$100.09 RCD/ B 20 6 30 1.75 N/A N/A N/A N/A N/A N/A 0.16 N/A 250 250 250 250 2 0 0.2 18 18 18 2 N/A | <i>£ £</i> | Circuit designation | ring | hod | ints | ž | R | g m | | | ğ | (KA) | (mA) | (Ω) | r1 | rn | r2 | (~) | | · . | V | M(Ω) | M(Ω) | (~) | | ms | ms | (√) | (√) |
| 81.3 LTS TTS THIS END D B 5 5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 | 8/L1 | SKTS HR & SERVER | D | В | 9 | 6 | 6 | 0.4 | 61009 RCD/ | В | 32 | 6 | 30 | 1.09 | N/A | N/A | N/A | N/A | 0.32 | N/A | 250 | >299 | >299 | ✓ | 0.47 | 18 | 18 | ✓ | N/A |
| 01.1 LTSTHISRMXI D B 1 1 5.5 1.5 0.4 61009 RCD B 6 6 30 5.22 NA NA NA NA NA NA 0.13 NA 260 \$290 \$290 \$7 0.75 18 18 \$ \$ \$ NA | 8/L2 | HEATER BELOW | D | В | 1 | 2.5 | 2.5 | 0.4 | 61009 RCD/ | В | 20 | 6 | 30 | 1.75 | N/A | N/A | N/A | N/A | 0.06 | N/A | 250 | >299 | >299 | ✓ | 0.22 | 18 | 18 | ✓ | N/A |
| 91.2 LTS ITS CP8D & OUT D 8 2 1.5 1.5 0.4 \$1009 RCD 8 6 6 30 5.2 NA | 8/L3 | LTS IT3 THIS END | D | В | 5 | 1.5 | 1.5 | 0.4 | 61009 RCD/ | В | 6 | 6 | 30 | 5.82 | N/A | N/A | N/A | N/A | 0.16 | N/A | 250 | >299 | >299 | ✓ | 0.32 | 18 | 18 | ✓ | N/A |
| 98.3 LTS ITS MID & THIS RM X1 D B B 4 1.5 1.5 0.4 61009 RCDV B 6 6 8 30 5.82 N/A N/A N/A N/A N/A N/A N/A 0.39 N/A 250 >299 >299 \$\sqrt{0}\$ 0.54 18 18 \$\sqrt{0}\$ N/A 10.11 LTS TIS FAR & CPPD D B 5 5 1.5 1.5 0.4 61009 RCDV B 6 6 6 30 5.82 N/A N/A N/A N/A N/A N/A N/A N/A 0.4 250 >299 >299 \$\sqrt{0}\$ 0.62 18 18 6 \$\sqrt{0}\$ N/A 10.11 N/A 10.12 N/A | 9/L1 | LTS THIS RM X1 | D | В | 1 | 1.5 | 1.5 | 0.4 | 61009 RCD/ | В | 6 | 6 | 30 | 5.82 | N/A | N/A | N/A | N/A | 0.13 | N/A | 250 | >299 | >299 | ✓ | 0.27 | 18 | 18 | ✓ | N/A |
| 101.1 LTS ITS FAR & CPBD | 9/L2 | LTS IT3 CPBD & OUT | D | В | 2 | 1.5 | 1.5 | 0.4 | 61009 RCD/ | В | 6 | 6 | 30 | 5.82 | N/A | N/A | N/A | N/A | 0.60 | N/A | 250 | >299 | >299 | ✓ | 0.75 | 18 | 18 | ✓ | N/A |
| 1012 HEATER FAR D B 1 2.5 2.5 0.4 61009 RCD/B 20 6 30 1.75 NA NA NA NA 0.2 NA 220 229 229 229 0 0.42 18 18 0 NA 1013 173 CPBD BENCH D B 3 6 6 0.4 61009 RCD/B 8 32 6 30 1.09 NA NA NA NA NA NA 0.06 NA 220 229 229 229 0 0.22 18 18 0 NA | 9/L3 | LTS IT3 MID & THIS RM X1 | D | В | 4 | 1.5 | 1.5 | 0.4 | 61009 RCD/ | В | 6 | 6 | 30 | 5.82 | N/A | N/A | N/A | N/A | 0.39 | N/A | 250 | >299 | >299 | ✓ | 0.54 | 18 | 18 | ✓ | N/A |
| 101.3 T3 CPBD BENCH D B 3 6 6 0.4 6109 RCD B 32 6 30 1.09 N/A N/A N/A N/A N/A N/A 0.06 N/A 250 299 299 2 0.22 18 18 7 N/A N/ | 10/L1 | LTS IT3 FAR & CPBD | D | В | 5 | 1.5 | 1.5 | 0.4 | 61009 RCD/ | В | 6 | 6 | 30 | 5.82 | N/A | N/A | N/A | N/A | 0.49 | N/A | 250 | >299 | >299 | ✓ | 0.62 | 18 | 18 | √ | N/A |
| 11/TP MEETING ROOM 3 DB D B 1 16 16 0.4 60898 MCB C 40 6 N/A 0.44 N/A N/A N/A N/A 0.08 N/A 250 >299 >299 V 0.24 N/A | 10/L2 | HEATER FAR | D | В | 1 | 2.5 | 2.5 | 0.4 | 61009 RCD/ | В | 20 | 6 | 30 | 1.75 | N/A | N/A | N/A | N/A | 0.28 | N/A | 250 | >299 | >299 | ✓ | 0.42 | 18 | 18 | ✓ | N/A |
| 12/TP NEXT DOOR (BEHIND) DB D B 1 16 16 0.4 60898 MCB C 40 6 N/A 0.44 N/A N/A N/A N/A 0.01 N/A 250 229 229 \$\sqrt{0.17}\$ N/A N/A N/A N/A N/A N/A N/A N/A N/A 0.01 N/A 250 229 229 \$\sqrt{0.17}\$ N/A | 10/L3 | IT3 CPBD BENCH | D | В | 3 | 6 | 6 | 0.4 | 61009 RCD/ | В | 32 | 6 | 30 | 1.09 | N/A | N/A | N/A | N/A | 0.06 | N/A | 250 | >299 | >299 | ✓ | 0.22 | 18 | 18 | ✓ | N/A |
| Details of circuits and/or installed equipment vulnerable to damage when testing Date(s) dead testing 19/04/2022 To 19/04/2022 Signature Tested by: Name (capital letters) SIMON HAMMOND Position Electrician Date 19/04/2022 | 11/TP | MEETING ROOM 3 DB | D | В | 1 | 16 | 16 | 0.4 | 60898 MCB | С | 40 | 6 | N/A | 0.44 | N/A | N/A | N/A | N/A | 0.08 | N/A | 250 | >299 | >299 | ✓ | 0.24 | N/A | N/A | N/A | N/A |
| Computers Tested by: Name (capital letters) SIMON HAMMOND Position Electrician Date 19/04/2022 | 12/TP | NEXT DOOR (BEHIND) DB | D | В | 1 | 16 | 16 | 0.4 | 60898 MCB | С | 40 | 6 | N/A | 0.44 | N/A | N/A | N/A | N/A | 0.01 | N/A | 250 | >299 | >299 | ✓ | 0.17 | N/A | N/A | N/A | N/A |
| Computers Tested by: Name (capital letters) SIMON HAMMOND Position Electrician Date 19/04/2022 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Computers Tested by: Name (capital letters) SIMON HAMMOND Position Electrician Date 19/04/2022 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Computers Tested by: Name (capital letters) SIMON HAMMOND Position Electrician Date 19/04/2022 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Computers Tested by: Name (capital letters) SIMON HAMMOND Position Electrician Date 19/04/2022 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Computers Tested by: Name (capital letters) SIMON HAMMOND Position Electrician Date 19/04/2022 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Computers Tested by: Name (capital letters) SIMON HAMMOND Position Electrician Date 19/04/2022 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Computers Tested by: Name (capital letters) SIMON HAMMOND Position Electrician Date 19/04/2022 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Computers Tested by: Name (capital letters) SIMON HAMMOND Position Electrician Date 19/04/2022 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Computers Tested by: Name (capital letters) SIMON HAMMOND Position Electrician Date 19/04/2022 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Computers Tested by: Name (capital letters) SIMON HAMMOND Position Electrician Date 19/04/2022 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Computers Tested by: Name (capital letters) SIMON HAMMOND Position Electrician Date 19/04/2022 | | | | | | | | | | | | | 1 | | | Ì | | | | | | | | | | Î | | | |
| Computers Tested by: Name (capital letters) SIMON HAMMOND Position Electrician Date 19/04/2022 | | | | | | | | | | | | | 1 | | | Ì | | | | | | | | | | Î | | | |
| Computers Tested by: Name (capital letters) SIMON HAMMOND Position Electrician Date 19/04/2022 | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | |
| Computers Tested by: Name (capital letters) SIMON HAMMOND Position Electrician Date 19/04/2022 | Details of | of circuits and/or installed | equip | ment v | ulner | able to | damage | when | testing | Da | te(s) | dead | testing | 19/04/ | 2022 | То | 19/04/2 | 022 | Date | e(s) live | testino | ı | 19/04/20 |)22 | To | 0 | 19/04 | 4/2022 | 一 |
| Tested by: Name (capital letters) Simon Hammond Position Electrician Date 19/04/2022 | | | | | | | | | | | . , , | | | | | | | | ĺ | ` ' | _ | 01 | | | | | | | |
| Viring Types. A PVC/PVC, B PVC cables in metallic Conduit, C PVC cables in non-metallic Conduit, D PVC cables in mon-metallic trunking, E PVC cables in non-metallic trunking, F PVC/SWA cables, H Mineral Insulated, MW Metal Work, FM Ferrous Metal, O Other | Tested b | y: Name (capital letters) | S | IMON H | AMMO | ND | | Р | osition Electr | ician | | | | | Date 1 | 9/04/202 | 2 | | ĺ | | | - Juh | W | | | | | | |
| | Wiring Types. | A PVC/PVC, B PVC cables in metallic Conduit, | C PVC ca | ables in non | -metallic C | onduit, D PV | C cables in me | etallic trunkin | ng, E PVC cables in nor | n-metalli | ic trunking | , F PVC/S | WA cables | , G SWA/XPLE | cables, H M | ineral Insulat | ed, MW Metal | Work, FN | ■ ¶ Ferrous Met | al, O Other | | | | | | | | | |

ELECTRICAL INSTALLATION CERTIFICATE

Requirements for Electrical Installations - BS 7671: 2018 (IET Wiring Regulations 18th Edition)



Information for recipients:

This safety Certificate has been issued to confirm that the electrical installation work to which it relates has been designed, constructed, inspected and tested in accordance with BS 7671 (the IET Wiring Regulations).

You should have received an original Certificate and the contractor should have retained a duplicate.

If you were the person ordering this work, but not the owner of the installation, you should pass this Certificate, or a copy of it, immediately to the owner.

The original Certificate is to be retained in a safe place and be shown to any person inspecting or undertaking work on the electrical installation in the future.

If you later vacate the property, this Certificate will demonstrate to the new owner that the electrical installation complied with the requirements of BS 7671 at the time the Certificate was issued. The Construction (Design and Management)
Regulations require that, for a project covered
by those regulations, a copy of this certificate,
together with schedules, is included in the
project health and safety document.

For safety reasons, the electrical installation will need to be re-inspected at appropriate intervals by a skilled person or persons, competent in such work. The maximum time interval recommended before the next inspection is stated on Page 2 under "NEXT INSPECTION".

This Certificate is intended to be issued only for a new electrical installation or for new work associated with an addition or alteration to an existing installation. It should not have been issued for the inspection and testing of an existing electrical installation. An "Electrical installation Condition Report" should be issued for such an inspection.

This Certificate is only valid if accompanied by the schedule of inspections and the schedule(s) of test results.