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|  | | | **Outdoor Circuit Breaker - L2**  Inspection and Test Record - ITR | | | | | | | | | | | **Asset:** | | | |  | | | | | | | | | |
| **Area:** | | | |  | | | | | | | | | |
| **Discipline:** | | | |  | | | | | | | | | |
| **Component:** | | | |  | | | | | | | | | |
| **1. GENERAL** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Project Name:** |  | | | | | | | | | | | **Project No.:** | | | | |  | | | | | | | | | | |
| **ITR Description:** | Outdoor Circuit Breaker - L2 | | | | | | | | | | | **ITR Template No.:** | | | | | ZENT-ITR-7550 | | | | | | | | **Rev.:** | |  |
| **ITR Level:** | Level 2 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **2. SUBCONTRACTOR** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Company:** | |  | | | | | | | | | | | | | **Supervisor:** | | | | | |  | | | | | | |
| **Scope of Work:** | |  | | | | | | | | | | | | | **Contract No.:** | | | | | |  | | | | | | |
| **3. INSPECTION AND TEST DETAILS** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Is HOLD POINT applicable?** | | | | | **YES** | ☐ | **NO** | ☐ | | **Is WITNESS applicable?** | | | | | | | | | | **YES** | | ☐ | | **NO** | | ☐ | |
| **ITP Reference:** | | Choose an item | | | | | | | | | | | | | **Location:** | | | | |  | | | | | | | |
| **Drawings Ref.:** | |  | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Specification Ref.:** | | Choose an item | | | | | | | | | | | | | | | | | | | | | | | | | |
| **4. EQUIPMENT DETAILS** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Description:** | | |  | | | | | | | | | | **Model Number:** | | | |  | | | | | | | | | | |
| **Manufacturer:** | | |  | | | | | | | | | | **Serial Number:** | | | |  | | | | | | | | | | |
| **5. TEST EQUIPMENT: \*\*\*WARNING - Always ensure circuits are de-energised before connecting test equipment\*\*\*** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Equipment** | | | | **Make / Model** | | | | | | **Serial Number** | | | | | | | | **Calibration Due Date** | | | | | | | | | |
| Insulation resistance Tester | | | |  | | | | | |  | | | | | | | |  | | | | | | | | | |
| Ductor Tester | | | |  | | | | | |  | | | | | | | |  | | | | | | | | | |
| **6. INSPECTION POINTS** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Insulation Test Result** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Main contacts closed** | | | | | **IR Test** | | | | | | | | | | | | | | | | | | | | | | |
| **Voltage (V)** | | | | | | **Duration (s)** | | | | | | | | **Resistance (GΩ)** | | | | | | | | |
| **Aa - BbCcE** | | | | |  | | | | | |  | | | | | | | |  | | | | | | | | |
| **Bb - AaCcE** | | | | |  | | | | | |  | | | | | | | |  | | | | | | | | |
| **Cc - AaBbE** | | | | |  | | | | | |  | | | | | | | |  | | | | | | | | |
| **Main contacts open** | | | | | **IR Test** | | | | | | | | | | | | | | | | | | | | | | |
| **Voltage (V)** | | | | | | **Duration (s)** | | | | | | | | **Resistance (GΩ)** | | | | | | | | |
| **A - aBbCcE** | | | | |  | | | | | |  | | | | | | | |  | | | | | | | | |
| **B - aAbcCE** | | | | |  | | | | | |  | | | | | | | |  | | | | | | | | |
| **C - aAbBcE** | | | | |  | | | | | |  | | | | | | | |  | | | | | | | | |
| **a - ABbCcE** | | | | |  | | | | | |  | | | | | | | |  | | | | | | | | |
| **b - aABcCE** | | | | |  | | | | | |  | | | | | | | |  | | | | | | | | |
| **c - aAbBCE** | | | | |  | | | | | |  | | | | | | | |  | | | | | | | | |
| **Circuit Breaker** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Main contacts closed** | | | | | **Resistance μΩ** | | | | | | | | | | | | | | | | | | | | | | |
| **Ductor (A)** | | | | **Resistance μΩ** | | | | | | | **Pass** | | | | | | | **Fail** | | | | |
| **Red** | | | | |  | | | |  | | | | | | | ☐ | | | | | | | ☐ | | | | |
| **White** | | | | |  | | | |  | | | | | | | ☐ | | | | | | | ☐ | | | | |
| **Blue** | | | | |  | | | |  | | | | | | | ☐ | | | | | | | ☐ | | | | |

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|  | | | | **Outdoor Circuit Breaker - L2**  Inspection and Test Record - ITR | | | | | | | | | **Asset:** | | |  | | | | | | |
| **Area:** | | |  | | | | | | |
| **Discipline:** | | |  | | | | | | |
| **Component:** | | |  | | | | | | |
| **Auxiliary Readings** | | | | | | | | | | | | | | | | | | | | | | |
| **Trip Supply (Vdc)** | | |  | | | **Trip Coil 1 (Ω)** | | |  | | | | | **Motor Overload (A)** | | | | | |  | | |
| **Close Supply (Vdc)** | | |  | | | **Trip Coil 2 (Ω)** | | |  | | | | | **Heater thermostat ºC** | | | | | |  | | |
| **Charging Motor Supply (Vdc)** | | |  | | | **Closing Coil (Ω)** | | |  | | | | | **Counter reading** | | | | | |  | | |
| **7. INSPECTION POINTS (Functional Tests & Completion)** | | | | | | | | | | | | | | | | | | | | | | |
| **Inspection Description** | | | | | | | | **Compliant?** | | | | | **Comments** | | | | | | | | | |
| **Yes** | | **No** | **N/A** | |
| **1** | Auxiliary Supply Voltage and Polarity correct | | | | | | | ☐ | | ☐ | ☐ | |  | | | | | | | | | |
| **2** | Protection operates both trip coils | | | | | | | ☐ | | ☐ | ☐ | |  | | | | | | | | | |
| **3** | Wiring to control panels correct as per schematic | | | | | | | ☐ | | ☐ | ☐ | |  | | | | | | | | | |
| **4** | CB operates correctly when done manually | | | | | | | ☐ | | ☐ | ☐ | |  | | | | | | | | | |
| **5** | Indicators read correctly in open and close position | | | | | | | ☐ | | ☐ | ☐ | |  | | | | | | | | | |
| **6** | Spring charge works automatically | | | | | | | ☐ | | ☐ | ☐ | |  | | | | | | | | | |
| **7** | Apply trip while close is maintained (anti pump) | | | | | | | ☐ | | ☐ | ☐ | |  | | | | | | | | | |
| **8** | Anti-condensation heaters operational, tong tested | | | | | | | ☐ | | ☐ | ☐ | |  | | | | | | | | | |
| **9** | Gas pressure Lockout/Trip functional | | | | | | | ☐ | | ☐ | ☐ | |  | | | | | | | | | |
| **10** | CB cannot be operated with ES on | | | | | | | ☐ | | ☐ | ☐ | |  | | | | | | | | | |
| **11** | Close and opening timing tests complete, test report attached | | | | | | | ☐ | | ☐ | ☐ | |  | | | | | | | | | |
| **12** | Area left clean and tidy | | | | | | | ☐ | | ☐ | ☐ | |  | | | | | | | | | |
| **13** | Drawings updated and marked as 'As-Built' | | | | | | | ☐ | | ☐ | ☐ | |  | | | | | | | | | |
| **Operation Type** | | | **Local** | | | | **Remote (Relay)** | | | | | **Remote (HMI)** | | | | | **Remote (Offsite)** | | | | | |
| **Close Operation** | | |  | | | |  | | | | |  | | | | |  | | | | | |
| **Open Operation** | | |  | | | |  | | | | |  | | | | |  | | | | | |
| **8. INSPECTION AND TEST RESULT** | | | | | | | | | | | | | | | | | | | | | | |
| **ACTION Details or Inspection Comments:** | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | | | | |
| **Works to go and/or punch list items registered?** | | | | | | | | | | | | | | | | | | **YES** | | ☐ | **N/A** | ☐ |
| **9. SUBCONTRACTOR SIGN OFF** | | | | | | | | | | | | | | | | | | | | | | |
| **Name:** | |  | | | **Position:** | |  | | | | | **Signature:** | | |  | | | | **Date:** | |  | |

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| **10. ZENVIRON WITNESS OR HOLD POINT SIGN OFF** (if considered applicable in Section 3) | | | | | | | |
| **Name:** |  | **Position:** |  | **Signature:** |  | **Date:** |  |

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