1. **GENERAL DATA AND INFORMATION:**

|  |  |  |  |
| --- | --- | --- | --- |
| Circuit Ref:  |  | Designation | DPM |
| Panel No :  |  | Type | **SQLC-110L** |
| Make | **DAIICHI** | Class | 1.0 |
| Serial No |  | C.T. Ratio | 3000/1A |
| VT Ratio | 380kV/115V | Output |  |

1. **MECHANICAL CHECKS AND VISUAL INSPECTION:**



|  |  |  |
| --- | --- | --- |
| **Item** | **Description** | **Checked** |
| 1 | Inspect for physical damage / defects. |    |
| 2 | Verify connections as per approved drawings. |   |

1. **ELECTRICAL TEST :**

**Secondary injection test:**

* 1. **Ammeter**:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Function** | **Injected Current** | **Expected Reading** | **Meter Reading** | **AVG %Error** | **Status** |
| **R** | **Y**  | **B** |
| **Ammeter** | **0.25xIn** | **750 A** |  |  |  |  |  |
| **0.5xIn** | **1500 A** |  |  |  |  |  |
| **0.75xIn** | **2250 A** |  |  |  |  |  |
| **1xIn** | **3000 A** |  |  |  |  |  |

 Results: % Error = (Observed Meter Reading – Expected Meter Reading) / Expected Reading \* 100.

* 1. **Voltmeter**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Function** | **Injected Current** | **Expected Reading** | **Meter Reading** | **AVG %Error** | **Status** |
| **RY** | **YB**  | **BR** |
| **Voltmeter** | **0.5xVn** | **190 kV** |  |  |  |  |  |
| **1xIn** | **380 kV** |  |  |  |  |  |
| **Frequency** | **1xVn** | **60 Hz** |  |  |  |

Results: % Error = (Observed Meter Reading – Expected Meter Reading) / Expected Reading \* 100

* 1. **Power meter:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Function**  | **Injected 3ph voltage & Current** | **Expected reading** | **Meter reading** | **%Error** | **Status** |
| **Watt meter** | **VAR meter** |
| **Watt meter** | V=1xVn |  |  |  |  |  |
| I= 0.5xIn |
| Ø= -30º |
| V=1xVn |  |  |  |  |  |
| I= 1xIn |
| Ø= 0º |
| **VAR meter** | V=1xVn |  |  |  |  |  |
| I= 0.5xIn |
| Ø= -60º |
| V=1xVn |  |  |  |  |  |
| I= 1xIn |
| Ø= -90º |

% Error = (Observed meter reading-Expected meter reading)/Expected reading x 100