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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  As per the schematic drawings, the contents in this test format can be modified. 1. **GENERAL DATA AND INFORMATION:**

|  |  |
| --- | --- |
| Transformer OLTC Data | AVC Panel Data |
| OLTC Type |  | Panel Name |  |
| No of taps |  | Make |  |
| AC supply |  | AC supply |  |
| DC supply |  | DC supply |  |
| Drawing No. |  |  |  |

1. **MECHANICAL CHECK AND VISUAL INSPECTION AS PER TCS–P-105,REV – 1, ITEM NO 4.1**

|  |  |  |
| --- | --- | --- |
| **Item** | **Description** | **Checked** |
| 1 | Check tightness of all connections | 🞎 Yes | 🞎 N/A |
| 2 | Inspect for physical damage / defects | 🞎 Yes | 🞎 N/A |
| 3 | Panel condition, cleanliness, organization, labeling, readiness for service, panel doors, handles...etc | 🞎 Yes | 🞎 N/A |
| 4 | CT shorting checked | 🞎 Yes | 🞎 N/A |
| 5 | Indications checked | 🞎 Yes | 🞎 N/A |

|  |  |  |
| --- | --- | --- |
| **Item** | **Description** | **Checked** |
| 6 | Contact resistance of tripping and alarm checked | 🞎 Yes | 🞎 N/A |
| 7 | Check the ferrules as per specification | 🞎 Yes | 🞎 N/A |
| 8 | Confirm that each panel has been properly secured to the floor in its final service location. | 🞎 Yes | 🞎 N/A |
| 9 | Panel Earthing checked | 🞎 Yes | 🞎 N/A |
| 10 | Confirm that panels are constructed and wired as per SEC relevant specification. | 🞎 Yes | 🞎 N/A |
| 11 | Check case cover and gasket for proper seal against dust. | 🞎 Yes | 🞎 N/A |
| 12 | Check all installed equipment nameplate information for compliance to approved drawings and equipment /material lists. | 🞎 Yes | 🞎 N/A |
| 13 | For all internal and external panel wiring, confirm that all screw terminations are tight and that crimp connectors are firmly secured to the wire and to the termination point. Ensure that no part of the wire is bent at the termination point. Check Ferrules. | 🞎 Yes | 🞎 N/A |
| 14 | Check that panel equipment is mounted securely and protected against mal operation due to vibration, shock, etc. | 🞎 Yes | 🞎 N/A |
| 15 | Use of ring type terminals for wire termination for current circuit wires. | 🞎 Yes | 🞎 N/A |

1. **GENERAL PANEL FUNCTIONAL CHECKS : AS PER TCS–P-105 REV – 01, ITEM NO 5.1**

|  |  |  |
| --- | --- | --- |
| **Item** | **Description** | **Remarks** |
| 1 | Check output of AC outlet | 🞎 Yes | 🞎 N/A |
| 2 | Check illumination lamp | 🞎 Yes | 🞎 N/A |
| 3 | Check door switch | 🞎 Yes | 🞎 N/A |
| 4 | Check Heater / Thermostat | 🞎 Yes | 🞎 N/A |
| 5 | Check Function Of OLTC Heater | 🞎 Yes | 🞎 N/A |
| 6 | Check Function Of Lighting Circuit | 🞎 Yes | 🞎 N/A |

1. **OPERATION CHECKS :**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **OLTC Switch** | **AVC panel** | **AVC panel** |  | **OLTC switch** | **AVC push button** | **AVC panel** | **ECC** |
| **Local/Remote** | **Local/Remote** | **Auto/manual** | **Raise** | **Lower** | **Raise** | **Lower** | **Raise** | **Lower** | **Auto/****Manual** | **Raise** | **Lower** | **Ls step1** | **Ls step2** |
| **LOCAL** | LOCAL | Manual | E | Pos. | Pos. | N.pos. | N.pos. | N.pos. | N.pos. | N.pos. | N.pos. | N.pos. | N.pos. | N.pos. |
| A |  |  |  |  |  |  |  |  |  |  |  |
| Auto | E | Pos. | Pos. | N.pos. | N.pos. | N.pos. | N.pos. | N.pos. | N.pos. | N.pos. | N.pos. | N.pos. |
| A |  |  |  |  |  |  |  |  |  |  |  |
| REMOTE | Manual | E | Pos. | Pos. | N.pos. | N.pos. | N.pos. | N.pos. | N.pos. | N.pos. | N.pos. | N.pos. | N.pos. |
| A |  |  |  |  |  |  |  |  |  |  |  |
| Auto | E | Pos. | Pos. | N.pos. | N.pos. | N.pos. | N.pos. | N.pos. | N.pos. | N.pos. | N.pos. | N.pos. |
| A |  |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **OLTC Switch** | **AVC panel** | **AVC panel** |  | **OLTC switch** | **AVC push button** | **AVC panel** | **ECC** |
| **Local/Remote** | **Local/Remote** | **Auto/manual** | **Raise** | **Lower** | **Raise** | **Lower** | **Raise** | **Lower** | **Auto/****Manual** | **Raise** | **Lower** | **Ls step1** | **Ls step2** |
| **REMOTE** | LOCAL | Manual | E | N.pos. | N.pos. | Pos. | Pos. | N.pos. | N.pos. | N.pos. | N.pos. | N.pos. | N.pos. | N.pos. |
| A |  |  |  |  |  |  |  |  |  |  |  |
| Auto | E | N.pos. | N.pos. | N.pos. | N.pos. | pos. | pos. | N.pos. | N.pos. | N.pos. | N.pos. | N.pos. |
| A |  |  |  |  |  |  |  |  |  |  |  |
| REMOTE  | Manual | E | N.pos. | N.pos. | N.pos. | N.pos. | N.pos. | N.pos. | pos. | pos. | pos. | N.pos. | N.pos. |
| A |  |  |  |  |  |  |  |  |  |  |  |
| Auto | E | N.pos. | N.pos. | N.pos. | N.pos. | Pos. | Pos. | Pos. | N.pos. | N.pos. | Pos. | Pos. |
| A |  |  |  |  |  |  |  |  |  |  |  |

 **Note** E: expected; A: actual; Pos: possible; N. Pos: not possible

|  |  |  |  |
| --- | --- | --- | --- |
| **Tap Numbers** | **AVC panel** | **AVC** | **ECC** |
| **Local/Remote** | **Raise push button** | **Lower push****button** | **Auto Raise** | **Auto Lower** | **Auto/manual** | **Raise** | **Lower** |
| 1 | LOCAL |  |  |  |  | Manual |  |  |
|  |  |  |  | Auto |  |  |
| REMOTE |  |  |  |  | Manual |  |  |
|  |  |  |  | Auto |  |  |
| 2 | LOCAL |  |  |  |  | Manual |  |  |
|  |  |  |  | Auto |  |  |
| REMOTE |  |  |  |  | Manual |  |  |
|  |  |  |  | Auto |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Tap Numbers** | **AVC Panel** | **AVC** | **ECC** |
| **CR/ECC** | **Raise push button** | **Lower push****button** | **Auto Raise** | **Auto Lower** | **Auto/manual** | **Raise** | **Lower** |
| 3 | LOCAL |  |  |  |  | Manual |  |  |
|  |  |  |  | Auto |  |  |
| REMOTE |  |  |  |  | Manual |  |  |
|  |  |  |  | Auto |  |  |
| 4 | LOCAL |  |  |  |  | Manual |  |  |
|  |  |  |  | Auto |  |  |
| REMOTE |  |  |  |  | Manual |  |  |
|  |  |  |  | Auto |  |  |
| 5 | LOCAL |  |  |  |  | Manual |  |  |
|  |  |  |  | Auto |  |  |
| REMOTE |  |  |  |  | Manual |  |  |
|  |  |  |  | Auto |  |  |
| 6 | LOCAL |  |  |  |  | Manual |  |  |
|  |  |  |  | Auto |  |  |
| REMOTE |  |  |  |  | Manual |  |  |
|  |  |  |  | Auto |  |  |
| 7 | LOCAL |  |  |  |  | Manual |  |  |
|  |  |  |  | Auto |  |  |
| REMOTE |  |  |  |  | Manual |  |  |
|  |  |  |  | Auto |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Tap Numbers** | **AVC panel** | **AVC** | **ECC** |
| **CR/ECC** | **Raise push button** | **Lower push****button** | **Auto Raise** | **Auto Lower** | **Auto/manual** | **Raise** | **Lower** |
| 8 | LOCAL |  |  |  |  | Manual |  |  |
|  |  |  |  | Auto |  |  |
| REMOTE |  |  |  |  | Manual |  |  |
|  |  |  |  | Auto |  |  |
| 9 | LOCAL |  |  |  |  | Manual |  |  |
|  |  |  |  | Auto |  |  |
| REMOTE |  |  |  |  | Manual |  |  |
|  |  |  |  | Auto |  |  |
| 10 | LOCAL |  |  |  |  | Manual |  |  |
|  |  |  |  | Auto |  |  |
| REMOTE |  |  |  |  | Manual |  |  |
|  |  |  |  | Auto |  |  |
| 11 | LOCAL |  |  |  |  | Manual |  |  |
|  |  |  |  | Auto |  |  |
| REMOTE |  |  |  |  | Manual |  |  |
|  |  |  |  | Auto |  |  |
| 12 | LOCAL |  |  |  |  | Manual |  |  |
|  |  |  |  | Auto |  |  |
| REMOTE |  |  |  |  | Manual |  |  |
|  |  |  |  | Auto |  |  |
| 13 | LOCAL |  |  |  |  | Manual |  |  |
|  |  |  |  | Auto |  |  |
| REMOTE |  |  |  |  | Manual |  |  |
|  |  |  |  | Auto |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Tap Numbers** | **AVC panel** | **AVC** | **ECC** |
| **CR/ECC** | **Raise push button** | **Lower push****button** | **Auto Raise** | **Auto Lower** | **Auto/manual** | **Raise** | **Lower** |
| 14 | LOCAL |  |  |  |  | Manual |  |  |
|  |  |  |  | Auto |  |  |
| REMOTE |  |  |  |  | Manual |  |  |
|  |  |  |  | Auto |  |  |
| 15 | LOCAL |  |  |  |  | Manual |  |  |
|  |  |  |  | Auto |  |  |
| REMOTE |  |  |  |  | Manual |  |  |
|  |  |  |  | Auto |  |  |
| 16 | LOCAL |  |  |  |  | Manual |  |  |
|  |  |  |  | Auto |  |  |
| REMOTE |  |  |  |  | Manual |  |  |
|  |  |  |  | Auto |  |  |
| 17 | LOCAL |  |  |  |  | Manual |  |  |
|  |  |  |  | Auto |  |  |
| REMOTE |  |  |  |  | Manual |  |  |
|  |  |  |  | Auto |  |  |
| 18 | LOCAL |  |  |  |  | Manual |  |  |
|  |  |  |  | Auto |  |  |
| REMOTE |  |  |  |  | Manual |  |  |
|  |  |  |  | Auto |  |  |
| 19 | LOCAL |  |  |  |  | Manual |  |  |
|  |  |  |  | Auto |  |  |
| REMOTE |  |  |  |  | Manual |  |  |
|  |  |  |  | Auto |  |  |

1. **TAP POSITION INDICATION CHECKS**

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| --- | --- | --- | --- | --- |
| Tap Number | Tap in OLTC | Tap in AVC panel | Tap in IFC | Remarks |
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1. **AVC PANEL INDICATION CHECKS:**

|  |  |  |
| --- | --- | --- |
| Event | AVC panel | IFC Panel |
| Lamp status | Remarks | T.B. | Indication | Remarks |
| AVC LOCAL |  |  |  |  |  |
| AVC REMOTE |  |  |  |  |  |
| AVC MANUAL MODE |  |  |  |  |  |
| AVC AUTO MODE |  |  |  |  |  |
| OLTC LOCAL |  |  |  |  |  |
| TAP CHANGER IN PROGRESS |  |  |  |  |  |
| TAP CHANGER INCOMPLETE |  |  |  |  |  |

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