1. **GENERAL DATA AND INFORMATION.**

Responsibilities Legend

CSD PMD SOC SMD Contractor

Participation Icons

CSD PMD SOC SMD

Acronyms

NC Notice of Clearance

PAC Preliminary Acceptance Certification

FAC Final Acceptance Certification

List A Snags to be cleared before Energization  or snags that require shutdowns and outages

List B Snags does not effect Energization and can cleared after Energization

CSD Commissioning Services Department

PMD Project Management Department

SOC System Operations and Control

SMD Substation Maintenance Department

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Bay Name: | …………………………. |  | Device designation: | …………………………. |
| Bay ref: |  | Aux: voltage: | 24-240Vac/dc |
| Type: | CMESS.2S | No of contacts(main): | 2 C/O |
| Make | ABB |  | Drawing ref.: | …………………………. |

1. **MECHANICAL CHECK AND VISUAL INSPECTION. As per TCS-P-105,Rev.01**

|  |  |  |
| --- | --- | --- |
| **ITEM** | **DESCRIPTION** | **CHECKED** |
| 1. | Inspect for any physical damage or defects. |  |
| 2. | Verify connections as per approved drawing. |  |
| 3. | Check tightness of all connections. |  |
| 4. | Check Apparatus List. |  |

1. **ELECTRICAL TEST.**
2. **CHECK LIST OF ELECTRIC TEST.(As per TCS-P-105,Rev.01)**

|  |  |  |
| --- | --- | --- |
| **ITEM** | **DESCRIPTION** | **CHECKED** |
| 1 | Check the continuity of the contacts |  |
| 2 | Check the resistance of all output contacts |  |
| 3 | Check operate coil at the lowest nominal voltage |  |
| 4 | Check the operate coil power consumption during operation at nominal voltage |  |
| 5 | Check the timing of contacts |  |
| 6 | Check the power consumption of operating coil |  |
| 7 | Check the drop off voltage and pick up voltage for Under Voltage |  |
| 8 | Check the drop off voltage and pick up voltage for Over Voltage |  |
| 9 | Check the relay burden during operation at nominal voltage |  |
| 10 | Check Coil Resistance R =………Ohms |  |
| 11 | Check for visual indication of power supply pick up and reset |  |

1. **Under voltage :**

**Pickup/Drop off Tests:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sr. No.** | **Set Voltage (V1)** | | **Hysteresis Setting** | **P/U Voltage** | **D/O Voltage** |
| **(V**1**)** | **% of V**1 | **%** | **(V)** | **(V)** |
| **1** |  |  |  |  |  |
| **2** |  |  |  |  |  |
| **3** |  |  |  |  |  |

Accuracy within the rated control supply voltage tolerance ΔU ≤ 0.5% as per manual of CMESS.2S PAGE#6

1. **Burden Test:**

|  |  |  |  |
| --- | --- | --- | --- |
| **COIL** | **Applied Voltage(V)** | **Current(mA)** | **Burden(VA)** |
| **A1 – A2** | **125** |  |  |

Typical power Consumption: 0.75Was per manual of CMESS.2S PAGE#6

1. **Phase Failure Interruption Test:**

|  |  |
| --- | --- |
| **Function** | **Remarks** |
| B-C Failure |  |

1. **Pick Up Timing Test:**

|  |  |  |
| --- | --- | --- |
| **Sr. No.** | **Set Time (s)** | **Operate Time (s)** |
| **1** |  |  |
| **2** |  |  |
| **3** |  |  |

Accuracy within the rated control supply voltage toleranceΔt≤ 0.5% as per manual of CMESS.2S PAGE#6

1. **Over voltage :**

**Pickup/Drop off Tests:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sr. No.** | **Set Voltage (V1)** | | **Hysteresis Setting** | **P/U Voltage** | **D/O Voltage** |
| **(V**1**)** | **% of V**1 | **%** | **(V)** | **(V)** |
| **1** |  |  |  |  |  |
| **2** |  |  |  |  |  |
| **3** |  |  |  |  |  |

Accuracy within the rated control supply voltage tolerance ΔU ≤ 0.5% as per manual of CMESS.2S PAGE#6

1. **Final Settings Test:**
2. **Pickup/Drop off Tests:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sr. No.** | **Set Voltage (V1)** | | **Hysteresis Setting** | **P/U Voltage** | **D/O Voltage** |
| **(V**1**)** | **% of V**1 | **%** | **(V)** | **(V)** |
| **1** |  |  |  |  |  |

Accuracy within the rated control supply voltage tolerance ΔU ≤ 0.5% as per manual of CMESS.2S PAGE#6

1. **Pick Up Timing Test:**

|  |  |  |
| --- | --- | --- |
| **Sr. No.** | **Set Time (s)** | **Operate Time (s)** |
| **1** |  |  |

Accuracy within the rated control supply voltage tolerance Δt≤ 0.5% as per manual of CMESS.2S PAGE#6

1. **EQUIPMENT INFORMATION**

|  |  |  |
| --- | --- | --- |
| **EQUIPMENT /** SVERKER 750 | **SERIAL NO./** 8605140 | **EXPIRE DATE/**15 JUNE 2016 |
| **EQUIPMENT /** Fluke 179 | **SERIAL NO./** 1113004 | **EXPIRE DATE/**26 FEB 2016 |