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Table Of Contents

[**1.** **Introduction** 3](#_Toc193295439)

[**1.1** **Purpose** 3](#_Toc193295440)

[**1.2** **Scope** 3](#_Toc193295441)

[**1.3** **Relationship with other documents** 3](#_Toc193295442)

[**1.4** **SAT Protocol Pre-Execution Approval** 3](#_Toc193295443)

[**1.5** **SAT Protocol Post Execution Approval** 3](#_Toc193295444)

[**2.** **Pre-Test Requirements** 4](#_Toc193295445)

[**3.** **Asset Register** 5](#_Toc193295446)

[**3.1** **Key Components** 5](#_Toc193295447)

[**3.2** **IP Address Records** 5](#_Toc193295448)

[**4.** **Signal Tests** 6](#_Toc193295449)

[**4.1** **Digital Module Signals** 6](#_Toc193295450)

[**4.2** **Modbus Digital** 7](#_Toc193295451)

[**4.3** **Modbus Analogue** 9](#_Toc193295452)

[**4.4** **Data Validation** 10](#_Toc193295453)

[**5.** **Process test** 11](#_Toc193295454)

[**6.** **SCADA Verification** 12](#_Toc193295455)

[**7.** **Trends Testing** 14](#_Toc193295456)

[**8.** **Scada / SMS Alarms** 17](#_Toc193295457)

[**9.** **List Of Test Equipment** 21](#_Toc193295458)

[**10.** **Punch List Items** 21](#_Toc193295459)

# **Introduction**

## **Purpose**

{<p style="text-align: left;">Hlo</p>}

## **Scope**

{<p style="text-align: left;"><b><i><u>Hlo</u></i></b></p>}

## Relationship with Other Documents

|  |  |
| --- | --- |
| **Document Reference** | **Document Title** |
|  |  |
| {% endfor %} |  |

## SAT Protocol Pre-Execution Approval

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Print Name** | **Signature** | **Date** | **Initial** | **Company** |
|  |  |  |  |  |
| {% endfor %} |  |  |  |  |

## SAT Protocol Post Execution Approval

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Print Name** | **Signature** | **Date** | **Initial** | **Company** |
|  |  |  |  |  |
| {% endfor %} |  |  |  |  |

# **Pre-Test Requirements**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Item** | **Test** | **Method/Test Steps** | **Acceptance Criteria** | **Result** | **Punch Item** | **Verified by** | **Comment** |
|  |  |  |  |  |  |  |  |
| {% endfor %} |  |  |  |  |  |  |  |

# **Asset Register**

* 1. KEY COMPONENTS

|  |  |  |  |
| --- | --- | --- | --- |
| **S.no** | **Model** | **Description** | **Remarks** |
|  |  |  |  |
| {% endfor %} |  |  |  |

* 1. IP ADDRESS RECORDS

|  |  |  |
| --- | --- | --- |
| **Device** | **IP Address/Subnet/Gateway** | **Comments** |
|  |  |  |
| {% endfor %} |  |  |

# **Signal Tests**

## **Digital Module Signals**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **S. No.** | **Rack No.** | **Module Position** | **Signal TAG** | **Signal Description** | **Result** | **Punch Item** | **Verified By** | **Comment** |
|  |  |  |  |  |  |  |  |  |
| {% endfor %} |  |  |  |  |  |  |  |  |

## **4.2 Analogue Module Signals**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **S. No.** | **Rack No.** | **Module Position** | **Signal TAG** | **Signal Description** | **Result** | **Punch Item** | **Verified By** | **Comment** |
|  |  |  |  |  |  |  |  |  |
| {% endfor %} |  |  |  |  |  |  |  |  |

## **4.3Modbus Digital**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Address** | **Description** | **Remarks** | **Result** | **Punch Item** | **Verified By** | **Comment** |
|  |  |  |  |  |  |  |
| {% endfor %} |  |  |  |  |  |  |

## **4.4Modbus Analogue**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Address** | **Description** | **Range** | **Result** | **Punch Item** | **Verified By** | **Comment** |
|  |  |  |  |  |  |  |
| {% endfor %} |  |  |  |  |  |  |

## **4.5Data Validation**

|  |  |  |  |
| --- | --- | --- | --- |
| Tag | Range | SCADA Value | HMI Value |
|  |  |  |  |
| {% endfor %} |  |  |  |

# **Process test**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item** | **Action** | **Expected / Required Result** | **Pass/Fail** | **Comments** |
|  |  |  |  |  |
| {% endfor %} |  |  |  |  |

# **SCADA Verification**

|  |  |  |  |
| --- | --- | --- | --- |
| **Task** | **Expected Result** | **Pass/Fail** | **Comments** |
|  |  |  |  |
| {% endfor %} |  |  |  |

{% for image in SCADA\_IMAGES %}

{% endfor %}

# **Trends Testing**

|  |  |  |  |
| --- | --- | --- | --- |
| **Trend** | **Expected Behavior** | **Pass/Fail** | **Comments** |
|  |  |  |  |
| {% endfor %} |  |  |  |

{% for image in TRENDS\_IMAGES %}

{% endfor %}

# **Scada / SMS Alarms**

|  |  |  |  |
| --- | --- | --- | --- |
| **Alarm Type** | **Expected Result** | **Pass/Fail** | **Comments** |
|  |  |  |  |
| {% endfor %} |  |  |  |

**{% for image in ALARM\_IMAGES %}**

**{% endfor %}**

# **List Of Test Equipment**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item** | **Equipment/Tool** | **Make/Model** | **Serial No.** | **Calibration Date** |
| 1 |  |  |  |  |
| 2 |  |  |  |  |
| 3 |  |  |  |  |
| 4 |  |  |  |  |
| 5 |  |  |  |  |
| 6 |  |  |  |  |
| 7 |  |  |  |  |

# **Punch List Items**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Item** | **Detail of Non-Conformance** | **Raised By** | **Comment** | **Approved By** | **Date** |
|  |  |  |  |  |  |
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