#### GENERAL DATA AND INFORMATION:

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| --- | --- | --- | --- | --- |
| Panel No. | **ACSE** |  | Designation | **A1** |
| Panel Name | **13.8kV AUTO CHANGEOVER****SWITCHING EQUIP. PANEL** | Rated Voltage | 125 VDC |
| Order No. | **1MRK004814-AC** |
| Make |  | Serial No. | **TI440787** |
| Model | **ABB REC670** | Frequency |  60 Hz |

#### MECHANICAL CHECKS AND VISUAL INSPECTION:

|  |  |  |
| --- | --- | --- |
| ITEM | DESCRIPTION | CHECKED |
| 1 | Inspect for physical damage / defects. | ❑ Yes | ❑ N/A |
| 2 | Verify Connections as per approved drawings. | ❑ Yes | ❑ N/A |
| 3 | Check tightness of all connections. | ❑ Yes | ❑ N/A |
| 4 | Check apparatus lists. | ❑ Yes | ❑ N/A |
| 5 | Check ferrules. | ❑ Yes | ❑ N/A |
| 6 | Test Switch checked for correct function. | ❑ Yes | ❑ N/A |
| 7 | Check case earthing. | ❑ Yes | ❑ N/A |
| 8 | Watchdog contact. | ❑ Yes | ❑ N/A |

#### ELECTRICAL TESTS: With relay energized condition

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| --- | --- | --- |
| ITEM | DESCRIPTION | CHECKED |
| 1 | Measured auxiliary supply. | ❑ Yes | ❑ N/A |
| 2 | Clock set at local time. | ❑ Yes | ❑ N/A |
| 3 | Time maintained when auxiliary supply removed. | ❑ Yes | ❑ N/A |
| 4 | Relay healthy (green) LED working. | ❑ Yes | ❑ N/A |
| 5 | Human Machine Interface [HMI] checked. | ❑ Yes | ❑ N/A |
| 6 | LED’s function checked. | ❑ Yes | ❑ N/A |
| 7 | Reset of indications checked. | ❑ Yes | ❑ N/A |
| 8 | All binary inputs checked. | ❑ Yes | ❑ N/A |
| 9 | All binary outputs checked. | ❑ Yes | ❑ N/A |

#### INPUTS AND OUTPUTS TESTS:

* 1. **INPUT OPTO-ISOLATORS CHECKS (With Relay Energized):**

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| --- | --- | --- | --- | --- |
| **SLOT NO.** | **OPTO INPUT NO.** | **TEST METHOD****(Energize only one at a time with** **125V DC Station Battery voltage)** | **RESULT****Display 0 to 1** | **FUNCTION** |
| **X31** |
| P3 | BI.01 | ENERGIZE TB NO. X31: 1-2 | ❑ Yes | ❑ N/A | **BS1 CB CLOSE** |
| P3 | BI.02 | ENERGIZE TB NO. X31: 3-4 | ❑ Yes | ❑ N/A | **BS1 CB OPEN** |
| P3 | BI.03 | ENERGIZE TB NO. X31: 5-6 | ❑ Yes | ❑ N/A | **BS2 CB CLOSE** |
| P3 | BI.04 | ENERGIZE TB NO. X31: 7-8 | ❑ Yes | ❑ N/A | **BS2 CB OPEN** |
| P3 | BI.05 | ENERGIZE TB NO. X31: 9-10 | ❑ Yes | ❑ N/A | **SEC-B PROT. OPTD** |
| P3 | BI.06 | ENERGIZE TB NO. X31: 11-12 | ❑ Yes | ❑ N/A | **SEC-C PROT. OPTD** |
| P3 | BI.07 | ENERGIZE TB NO. X31: 13-14 | ❑ Yes | ❑ N/A | **SEC-A PROT. OPTD** |
| P3 | BI.08 | ENERGIZE TB NO. X31: 15-16 | ❑ Yes | ❑ N/A | **ACSE TEST MODE** |
| **X32** |
| P3 | BI.09 | ENERGIZE TB NO. X32: 1-2 | ❑ Yes | ❑ N/A | **GT-1 PROT. OPTD** |
| P3 | BI.10 | ENERGIZE TB NO. X32: 3-4 | ❑ Yes | ❑ N/A | **GT-2 PROT. OPTD** |
| P3 | BI.11 | ENERGIZE TB NO. X32: 5-6 | ❑ Yes | ❑ N/A | **GT-3 PROT. OPTD** |
| P3 | BI.12 | ENERGIZE TB NO. X32: 7-8 | ❑ Yes | ❑ N/A | **GT-1 CBF OPTD** |
| P3 | BI.13 | ENERGIZE TB NO. X32: 9-10 | ❑ Yes | ❑ N/A | **GT-2 CBF OPTD** |
| P3 | BI.14 | ENERGIZE TB NO. X32: 11-12 | ❑ Yes | ❑ N/A | **GT-3 CBF OPTD** |
| P3 | BI.15 | ENERGIZE TB NO. X32: 13-14 | ❑ Yes | ❑ N/A | **ACSE LOCAL** |
| P3 | BI.16 | ENERGIZE TB NO. X32: 15-16 | ❑ Yes | ❑ N/A | **ACSE REMOTE** |

|  |  |  |  |  |
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| **SLOT NO.** | **OPTO INPUT NO.** | **TEST METHOD****(Energize only one at a time with** **125V DC Station Battery voltage)** | **RESULT****Display 0 to 1** | **FUNCTION** |
| **X51** |
| P5 | BI.01 | ENERGIZE TB NO. X51: 1-2 | ❑ Yes | ❑ N/A | **GT-1 LV CB CLOSE** |
| P5 | BI.02 | ENERGIZE TB NO. X51: 3-4 | ❑ Yes | ❑ N/A | **GT-1 LV CB OPEN** |
| P5 | BI.03 | ENERGIZE TB NO. X51: 5-6 | ❑ Yes | ❑ N/A | **GT-2 LV CB CLOSE** |
| P5 | BI.04 | ENERGIZE TB NO. X51: 7-8 | ❑ Yes | ❑ N/A | **GT-2 LV CB OPEN** |
| P5 | BI.05 | ENERGIZE TB NO. X51: 9-10 | ❑ Yes | ❑ N/A | **GT-3 LV CB CLOSE** |
| P5 | BI.06 | ENERGIZE TB NO. X51: 11-12 | ❑ Yes | ❑ N/A | **GT-3 LV CB OPEN** |
| P5 | BI.07 | ENERGIZE TB NO. X51: 13-14 | ❑ Yes | ❑ N/A | **TOP IN** |
| P5 | BI.08 | ENERGIZE TB NO. X51: 15-16 | ❑ Yes | ❑ N/A | **TOP OUT** |
| **X52** |
| P5 | BI.09 | ENERGIZE TB NO. X52: 1-2 | ❑ Yes | ❑ N/A | SPARE |
| P5 | BI.10 | ENERGIZE TB NO. X52: 3-4 | ❑ Yes | ❑ N/A | **GT-1 VT FUSE FAIL** |
| P5 | BI.11 | ENERGIZE TB NO. X52: 5-6 | ❑ Yes | ❑ N/A | SPARE |
| P5 | BI.12 | ENERGIZE TB NO. X52: 7-8 | ❑ Yes | ❑ N/A | **GT-2 VT FUSE FAIL** |
| P5 | BI.13 | ENERGIZE TB NO. X52: 9-10 | ❑ Yes | ❑ N/A | SPARE |
| P5 | BI.14 | ENERGIZE TB NO. X52: 11-12 | ❑ Yes | ❑ N/A | **GT-3 VT FUSE FAIL** |
| P5 | BI.15 | ENERGIZE TB NO. X52: 13-14 | ❑ Yes | ❑ N/A | SPARE |
| P5 | BI.16 | ENERGIZE TB NO. X52: 15-16 | ❑ Yes | ❑ N/A | SPARE |

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| **SLOT NO.** | **OPTO INPUT NO.** | **TEST METHOD****(Energize only one at a time with** **125V DC Station Battery voltage)** | **RESULT****Display 0 to 1** | **FUNCTION** |
| **X61** |
| P5 | BI.01 | ENERGIZE TB NO. X61: 1-2 | ❑ Yes | ❑ N/A | **GT1 TOP REQUEST** |
| P5 | BI.02 | ENERGIZE TB NO. X61: 3-4 | ❑ Yes | ❑ N/A | **GT2 TOP REQUEST** |
| P5 | BI.03 | ENERGIZE TB NO. X61: 5-6 | ❑ Yes | ❑ N/A | **GT3 TOP REQUEST** |
| P5 | BI.04 | ENERGIZE TB NO. X61: 7-8 | ❑ Yes | ❑ N/A | **BS1 TOP REQUEST** |
| P5 | BI.05 | ENERGIZE TB NO. X61: 9-10 | ❑ Yes | ❑ N/A | **BS2 TOP REQUEST** |
| P5 | BI.06 | ENERGIZE TB NO. X61: 11-12 | ❑ Yes | ❑ N/A | **TOP ABORT** |
| P5 | BI.07 | ENERGIZE TB NO. X61: 13-14 | ❑ Yes | ❑ N/A | **ACSE ABORT** |
| P5 | BI.08 | ENERGIZE TB NO. X61: 15-16 | ❑ Yes | ❑ N/A | **ACSE RESET** |
| **X62** |
| P5 | BI.09 | ENERGIZE TB NO. X62: 1-2 | ❑ Yes | ❑ N/A | **GT-1 L/O RESET** |
| P5 | BI.10 | ENERGIZE TB NO. X62: 3-4 | ❑ Yes | ❑ N/A | **GT-2 L/O RESET** |
| P5 | BI.11 | ENERGIZE TB NO. X62: 5-6 | ❑ Yes | ❑ N/A | **GT-3 L/O RESET** |
| P5 | BI.12 | ENERGIZE TB NO. X62: 7-8 | ❑ Yes | ❑ N/A | **BS-1 L/O RESET** |
| P5 | BI.13 | ENERGIZE TB NO. X62: 9-10 | ❑ Yes | ❑ N/A | **BS-2 L/O RESET** |
| P5 | BI.14 | ENERGIZE TB NO. X62: 11-12 | ❑ Yes | ❑ N/A | **ACSE IN** |
| P5 | BI.15 | ENERGIZE TB NO. X62: 13-14 | ❑ Yes | ❑ N/A | **ACSE OUT** |
| P5 | BI.16 | ENERGIZE TB NO. X62: 15-16 | ❑ Yes | ❑ N/A | **5 CB IN SERVICE** |

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| **SLOT NO.** | **OPTO INPUT NO.** | **TEST METHOD****(Energize only one at a time with** **125V DC Station Battery voltage)** | **RESULT****Display 0 to 1** | **FUNCTION** |
| **X71** |
| P5 | BI.01 | ENERGIZE TB NO. X71: 1-2 | ❑ Yes | ❑ N/A | **ACSE DISC ALARM** |
| P5 | BI.02 | ENERGIZE TB NO. X71: 3-4 | ❑ Yes | ❑ N/A | **ACSE FAIL** |
| P5 | BI.03 | ENERGIZE TB NO. X71: 5-6 | ❑ Yes | ❑ N/A | **ACSE MCB FAIL** |
| P5 | BI.04 | ENERGIZE TB NO. X71: 7-8 | ❑ Yes | ❑ N/A | **BS-3 L/O RESET** |
| P5 | BI.05 | ENERGIZE TB NO. X71: 9-10 | ❑ Yes | ❑ N/A | SPARE |
| P5 | BI.06 | ENERGIZE TB NO. X71: 11-12 | ❑ Yes | ❑ N/A | SPARE |
| P5 | BI.07 | ENERGIZE TB NO. X71: 13-14 | ❑ Yes | ❑ N/A | SPARE |
| P5 | BI.08 | ENERGIZE TB NO. X71: 15-16 | ❑ Yes | ❑ N/A | SPARE |
| **X72** |
| P5 | BI.09 | ENERGIZE TB NO. X72: 1-2 | ❑ Yes | ❑ N/A | SPARE |
| P5 | BI.10 | ENERGIZE TB NO. X72: 3-4 | ❑ Yes | ❑ N/A | SPARE |
| P5 | BI.11 | ENERGIZE TB NO. X72: 5-6 | ❑ Yes | ❑ N/A | SPARE |
| P5 | BI.12 | ENERGIZE TB NO. X72: 7-8 | ❑ Yes | ❑ N/A | SPARE |
| P5 | BI.13 | ENERGIZE TB NO. X72: 9-10 | ❑ Yes | ❑ N/A | SPARE |
| P5 | BI.14 | ENERGIZE TB NO. X72: 11-12 | ❑ Yes | ❑ N/A | SPARE |
| P5 | BI.15 | ENERGIZE TB NO. X72: 13-14 | ❑ Yes | ❑ N/A | SPARE |
| P5 | BI.16 | ENERGIZE TB NO. X72: 15-16 | ❑ Yes | ❑ N/A | SPARE |

* 1. **OUTPUT RELAYS CHECKS (With Relay Energized):**

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| **SLOT NO.** | **OPTO INPUT NO.** | **TEST METHOD****(Energize only one at a time with** **125V DC Station Battery voltage)** | **RESULT****Display FALSE to TURE** | **FUNCTION** |
| **X41** |
| P4 | BI.01 | ENERGIZE TB NO. X41: 2-1 | ❑ Yes | ❑ N/A | SPARE |
| P4 | BI.02 | ENERGIZE TB NO. X41: 2-3 | ❑ Yes | ❑ N/A | SPARE |
| P4 | BI.03 | ENERGIZE TB NO. X41: 5-4 | ❑ Yes | ❑ N/A | **ACSE INPUT DISC.** |
| P4 | BI.04 | ENERGIZE TB NO. X41: 5-6 | ❑ Yes | ❑ N/A | **ACSE FAULTY** |
| P4 | BI.05 | ENERGIZE TB NO. X41: 8-7 | ❑ Yes | ❑ N/A | **ACSE IN** |
| P4 | BI.06 | ENERGIZE TB NO. X41: 8-9 | ❑ Yes | ❑ N/A | **ACSE OUT** |
| P4 | BI.07 | ENERGIZE TB NO. X41: 11-10 | ❑ Yes | ❑ N/A | **TOP IN** |
| P4 | BI.08 | ENERGIZE TB NO. X41: 11-12 | ❑ Yes | ❑ N/A | **TOP OUT** |
| P4 | BI.09 | ENERGIZE TB NO. X41: 14-13 | ❑ Yes | ❑ N/A | **GT-1 LV CB TRIP CMD** |
| P4 | BI.10 | ENERGIZE TB NO. X41: 14-15 | ❑ Yes | ❑ N/A | SPARE |
| P4 | BI.11 | ENERGIZE TB NO. X41: 17-16 | ❑ Yes | ❑ N/A | **GT-1 LV CB CLOSE CMD** |
| P4 | BI.12 | ENERGIZE TB NO. X41: 17-18 | ❑ Yes | ❑ N/A | SPARE |
| **X42** |
| P4 | BI.13 | ENERGIZE TB NO. X42: 2-1 | ❑ Yes | ❑ N/A | **GT-1 LV CB CLOSE BLK** |
| P4 | BI.14 | ENERGIZE TB NO. X42: 2-3 | ❑ Yes | ❑ N/A | SPARE |
| P4 | BI.15 | ENERGIZE TB NO. X42: 5-4 | ❑ Yes | ❑ N/A | **GT-1 LV CB TOP SELECT** |
| P4 | BI.16 | ENERGIZE TB NO. X42: 5-6 | ❑ Yes | ❑ N/A | SPARE |
| P4 | BI.17 | ENERGIZE TB NO. X42: 8-7 | ❑ Yes | ❑ N/A | **GT-2 LV CB TRIP CMD** |
| P4 | BI.18 | ENERGIZE TB NO. X42: 8-9 | ❑ Yes | ❑ N/A | SPARE |
| P4 | BI.19 | ENERGIZE TB NO. X42: 11-10 | ❑ Yes | ❑ N/A | **GT-2 LV CB CLOSE CMD** |
| P4 | BI.20 | ENERGIZE TB NO. X42: 11-12 | ❑ Yes | ❑ N/A | SPARE |
| P4 | BI.21 | ENERGIZE TB NO. X42: 14-13 | ❑ Yes | ❑ N/A | **GT-2 LV CB CLOSE BLK** |
| P4 | BI.22 | ENERGIZE TB NO. X42: 14-15 | ❑ Yes | ❑ N/A | SPARE |
| P4 | BI.23 | ENERGIZE TB NO. X42: 17-16 | ❑ Yes | ❑ N/A | **GT-2 LV CB TOP SELECT** |
| P4 | BI.24 | ENERGIZE TB NO. X42: 17-18 | ❑ Yes | ❑ N/A | SPARE |

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| **SLOT NO.** | **OPTO INPUT NO.** | **TEST METHOD****(Energize only one at a time with** **125V DC Station Battery voltage)** | **RESULT****Display FALSE to TURE** | **FUNCTION** |
| **X81** |
| P4 | BI.01 | ENERGIZE TB NO. X81: 2-1 | ❑ Yes | ❑ N/A | **ACSE READY** |
| P4 | BI.02 | ENERGIZE TB NO. X81: 2-3 | ❑ Yes | ❑ N/A | **ACSE ABORT** |
| P4 | BI.03 | ENERGIZE TB NO. X81: 5-4 | ❑ Yes | ❑ N/A | **TOP READY** |
| P4 | BI.04 | ENERGIZE TB NO. X81: 5-6 | ❑ Yes | ❑ N/A | **TOP ABORT** |
| P4 | BI.05 | ENERGIZE TB NO. X81: 8-7 | ❑ Yes | ❑ N/A | **TOP FAIL** |
| P4 | BI.06 | ENERGIZE TB NO. X81: 8-9 | ❑ Yes | ❑ N/A | SPARE |
| P4 | BI.07 | ENERGIZE TB NO. X81: 11-10 | ❑ Yes | ❑ N/A | SPARE |
| P4 | BI.08 | ENERGIZE TB NO. X81: 11-12 | ❑ Yes | ❑ N/A | SPARE |
| P4 | BI.09 | ENERGIZE TB NO. X81: 14-13 | ❑ Yes | ❑ N/A | SPARE |
| P4 | BI.10 | ENERGIZE TB NO. X81: 14-15 | ❑ Yes | ❑ N/A | SPARE |
| P4 | BI.11 | ENERGIZE TB NO. X81: 17-16 | ❑ Yes | ❑ N/A | SPARE |
| P4 | BI.12 | ENERGIZE TB NO. X81: 17-18 | ❑ Yes | ❑ N/A | SPARE |
| **X82** |
| P4 | BI.13 | ENERGIZE TB NO. X82: 2-1 | ❑ Yes | ❑ N/A | SPARE WIRED |
| P4 | BI.14 | ENERGIZE TB NO. X82: 2-3 | ❑ Yes | ❑ N/A | SPARE WIRED |
| P4 | BI.15 | ENERGIZE TB NO. X82: 5-4 | ❑ Yes | ❑ N/A | **CLOSE INTERLOCK** |
| P4 | BI.16 | ENERGIZE TB NO. X82: 5-6 | ❑ Yes | ❑ N/A | SPARE WIRED |
| P4 | BI.17 | ENERGIZE TB NO. X82: 8-7 | ❑ Yes | ❑ N/A | SPARE WIRED |
| P4 | BI.18 | ENERGIZE TB NO. X82: 8-9 | ❑ Yes | ❑ N/A | SPARE WIRED |
| P4 | BI.19 | ENERGIZE TB NO. X82: 11-10 | ❑ Yes | ❑ N/A | SPARE WIRED |
| P4 | BI.20 | ENERGIZE TB NO. X82: 11-12 | ❑ Yes | ❑ N/A | SPARE WIRED |
| P4 | BI.21 | ENERGIZE TB NO. X82: 14-13 | ❑ Yes | ❑ N/A | SPARE WIRED |
| P4 | BI.22 | ENERGIZE TB NO. X82: 14-15 | ❑ Yes | ❑ N/A | SPARE WIRED |
| P4 | BI.23 | ENERGIZE TB NO. X82: 17-16 | ❑ Yes | ❑ N/A | SPARE WIRED |
| P4 | BI.24 | ENERGIZE TB NO. X82: 17-18 | ❑ Yes | ❑ N/A | SPARE WIRED |

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| **SLOT NO.** | **OPTO INPUT NO.** | **TEST METHOD****(Energize only one at a time with** **125V DC Station Battery voltage)** | **RESULT****Display FALSE to TURE** | **FUNCTION** |
| **X91** |
| P4 | BI.01 | ENERGIZE TB NO. X91: 2-1 | ❑ Yes | ❑ N/A | **GT-3 LV CB TRIP CMD** |
| P4 | BI.02 | ENERGIZE TB NO. X91: 2-3 | ❑ Yes | ❑ N/A | SPARE |
| P4 | BI.03 | ENERGIZE TB NO. X91: 5-4 | ❑ Yes | ❑ N/A | **GT-3 LV CB CLOSE CMD** |
| P4 | BI.04 | ENERGIZE TB NO. X91: 5-6 | ❑ Yes | ❑ N/A | SPARE |
| P4 | BI.05 | ENERGIZE TB NO. X91: 8-7 | ❑ Yes | ❑ N/A | **GT-3 LV CB CLOSE BLK** |
| P4 | BI.06 | ENERGIZE TB NO. X91: 8-9 | ❑ Yes | ❑ N/A | SPARE |
| P4 | BI.07 | ENERGIZE TB NO. X91: 11-10 | ❑ Yes | ❑ N/A | **GT-3 LV CB TOP SELECT** |
| P4 | BI.08 | ENERGIZE TB NO. X91: 11-12 | ❑ Yes | ❑ N/A | SPARE |
| P4 | BI.09 | ENERGIZE TB NO. X91: 14-13 | ❑ Yes | ❑ N/A | **BS-1 LV CB TRIP CMD** |
| P4 | BI.10 | ENERGIZE TB NO. X91: 14-15 | ❑ Yes | ❑ N/A | SPARE |
| P4 | BI.11 | ENERGIZE TB NO. X91: 17-16 | ❑ Yes | ❑ N/A | **BS-1 LV CB CLOSE CMD** |
| P4 | BI.12 | ENERGIZE TB NO. X91: 17-18 | ❑ Yes | ❑ N/A | SPARE |
| **X92** |
| P4 | BI.13 | ENERGIZE TB NO. X92: 2-1 | ❑ Yes | ❑ N/A | **BS-1 LV CB CLOSE BLK** |
| P4 | BI.14 | ENERGIZE TB NO. X92: 2-3 | ❑ Yes | ❑ N/A | SPARE |
| P4 | BI.15 | ENERGIZE TB NO. X92: 5-4 | ❑ Yes | ❑ N/A | **BS-1 LV CB TOP SELECT** |
| P4 | BI.16 | ENERGIZE TB NO. X92: 5-6 | ❑ Yes | ❑ N/A | SPARE |
| P4 | BI.17 | ENERGIZE TB NO. X92: 8-7 | ❑ Yes | ❑ N/A | **BS-2 LV CB TRIP CMD** |
| P4 | BI.18 | ENERGIZE TB NO. X92: 8-9 | ❑ Yes | ❑ N/A | SPARE |
| P4 | BI.19 | ENERGIZE TB NO. X92: 11-10 | ❑ Yes | ❑ N/A | **BS-2 LV CB CLOSE CMD** |
| P4 | BI.20 | ENERGIZE TB NO. X92: 11-12 | ❑ Yes | ❑ N/A | SPARE |
| P4 | BI.21 | ENERGIZE TB NO. X92: 14-13 | ❑ Yes | ❑ N/A | **BS-2 LV CB CLOSE BLK** |
| P4 | BI.22 | ENERGIZE TB NO. X92: 14-15 | ❑ Yes | ❑ N/A | SPARE |
| P4 | BI.23 | ENERGIZE TB NO. X92: 17-16 | ❑ Yes | ❑ N/A | **BS-2 LV CB TOP SELECT** |
| P4 | BI.24 | ENERGIZE TB NO. X92: 17-18 | ❑ Yes | ❑ N/A | SPARE |

1. **INDICATION LED TEST**

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| **OPTO Input Number** | **LED****COLOR** | **RESULT DISPLAY****ON OR OFF** | **FUNCTION** |
| LED 1 | Red | ❑ Yes | ❑ N/A | **GT-1 STANDBY** |
| LED 2 | Red | ❑ Yes | ❑ N/A | **GT-2 STANDBY** |
| LED 3 | Red | ❑ Yes | ❑ N/A | **GT-3 STANDBY** |
| LED 4 | Red | ❑ Yes | ❑ N/A | **BS-1 STANDBY** |
| LED 5 | Red | ❑ Yes | ❑ N/A | **BS-1 STANDBY** |
| LED 6 | Red | ❑ Yes | ❑ N/A | **ACSE FAIL** |
| LED 7 | Yellow | ❑ Yes | ❑ N/A | **GT-1 PROTN OPTD** |
| LED 8 | Yellow | ❑ Yes | ❑ N/A | **GT-2 PROTN OPTD** |
| LED 9 | Yellow | ❑ Yes | ❑ N/A | **GT-3 PROTN OPTD** |
| LED 10 | Yellow | ❑ Yes | ❑ N/A | **STUCK PROTN OPTD** |
| LED 11 | Yellow | ❑ Yes | ❑ N/A | **GT-1 SERVICE/CLOSE** |
| LED 12 | Yellow | ❑ Yes | ❑ N/A | **GT-2 SERVICE/CLOSE** |
| LED 13 | Yellow | ❑ Yes | ❑ N/A | **GT-3 SERVICE/CLOSE** |
| LED 14 | Yellow | ❑ Yes | ❑ N/A | **BS-1 SERVICE/CLOSE** |
| LED 15 | Yellow | ❑ Yes | ❑ N/A | **BS-1 SERVICE/CLOSE** |